

THE
ANNUAL REPORT

TO THE
URBAN SANITARY
— AUTHORITY —

OF THE
COUNTY BOROUGH OF HUDDERSFIELD

FOR THE YEAR

1913.

BY

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PRINTED BY ORDER OF THE HEALTH COMMITTEE.

HUDDERSFIELD:

ALFRED JUBB AND SON, LTD., ALBANY PRINTING WORKS.



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HEALTH COMMITTEE.

Meets at the Town Hall on the second Wednesday in each month,
at 3 p.m.

Alderman JOSEPH BLAMIRE, Esq., J.P., Mayor, and 19 Members.

Mr. Alderman W. H. JESSOP, J.P., Chairman.

Mr. Councillor S. STEPHENS, Deputy-Chairman.

Aldermen :

E. A. BEAUMONT.

H. PULLON, M.B., C.M.

Councillors :

G. A. BOOTHROYD.

A. SYKES.

L. DEMETRIADI, M.D., D.P.H.

J. SYKES.

A. HALSTEAD.

LAW TAYLOR.

T. W. HESKETH.

A. WILLIS.

D. MIDGLEY.

T. WOFFENDEN.

J. H. PLATTS.

J. B. WOOD.

W. ROBERTSON, M.D.

J. E. WOOD.

J. H. ROBSON.

Duties and Powers.

To execute and perform in the name and on behalf of the Council, but subject to the Standing Orders of the Council and to confirmation by the Council, all the powers and duties of the Corporation in relation to the following :—

Infectious and Epidemic Diseases.

Hospitals for Infectious Diseases.

Common Lodging Houses.

Cleansing of Infected Houses.

Prevention of Pollution of Rivers and Streams.

Health Statistics and Sickness and Mortality Returns.

Superintendence of the Department of the Medical Officer of Health.

All the powers and duties imposed upon the Council by the Midwives Act, 1902.

Removal and Disposal of Nightsoil and Refuse.

Nuisances.

Offensive Trades.

Control of Drains, Privies, Ashpits, and Cesspools.

Buildings and Rooms unfit for Habitation.

Polluted Wells.

Adulteration of Food and Drugs.

Unwholesome Food.

Cowsheds, Dairies, and Milkshops.

Canal Boats.

Factories and Workshops.

Small Holdings and Allotments (pursuant to the Small Holdings and Allotments Act, 1908).

HOUSING AND TOWN PLANNING COMMITTEE.

Meets at the Town Hall on the Friday preceding the first
Wednesday in each month, at 4 p.m.

THE MAYOR (Alderman JOSEPH BLAMIRE, Esq., J.P.), and
17 Members.

MR. ALDERMAN C. SMITH, J.P., Chairman.

MR. ALDERMAN J. BERRY, Deputy-Chairman.

Aldermen :

E. A. BEAUMONT.

W. H. JESSOP, J.P.

T. CARTWRIGHT.

E. WOODHEAD, M.A., J.P.

R. H. INMAN, J.P.

Councillors :

J. BARLOW.

D. MIDGLEY.

G. A. BOOTHROYD.

R. MITCHELL.

B. BOTTOMLEY.

J. SHAW.

H. DAWSON.

W. SINGLETON.

F. MARSLAND.

A. SYKES.

Duties and Powers.

To execute and perform in the name and on behalf of the Council, but subject to the Standing Orders of the Council and to confirmation by the Council, all powers and duties of the Corporation in relation to :—

1. Housing of the Working Classes Acts, 1890 to 1909.
2. Part 2 of the Housing, Town Planning, &c., Act, 1909.

PUBLIC HEALTH DEPARTMENT.

STAFF :

Medical Officer of Health :

S. G. H. MOORE, M.D., M.B., Ch.B., D.P.H.

Assistant Medical Officers of Health :

AGNES J. MACLAREN, M.B., C.M., L.M., D.P.H.

M. M. THOMSON, L.R.C.P., L.R.C.S., L.M., D.P.H.

Public Analyst :

L. GORDON PAUL, Ph.D., F.I.C.

Veterinary Inspector :

J. MCKINNA, F.R.C.V.S.

Hospital Matron :

MISS A. DUTTON.

Canal Boats Inspector :

W. M. DRAKE. †

Chief Sanitary Inspector :

ALBERT BROOK. †§‡

Assistant Inspectors :

H. JESSOP. †*

W. B. MCKAY. †*

W. E. SHARP. †*

F. L. LEACH. †*

W. TAYLOR. †*

Inspectors under the Housing and Town Planning Act :

ERNEST RICHARDSON. †

H. T. MARSHALL. †

Removal Officer :

M. TURNER.

Clerks :

N. LOCKWOOD.

W. GARSIDE.

W. BREARLEY.

H. WATSON.

† Certificate of Royal Sanitary Institute for Inspector of Nuisances.

§ Certificate of Royal Sanitary Institute in Practical Sanitary Science

‡ Certificate of Sanitary Inspectors Examination Board.

* Certificate of Royal Sanitary Institute in Meat and Food Inspection.

ABSTRACT.

1. **Situation of the Borough.**—Latitude $53^{\circ} 39' 7''$ N.; Longitude $1^{\circ} 47' 30''$ W.
2. **Elevation.**—Varies from 150 feet to 1200 feet above Sea Level.
3. **Area of the Borough.**—11,859 acres.
4. **Population.**—1911 Census, 107,825; estimated at middle of 1913, 110,882.
5. **Density of Population.**—For the Borough 9.35 persons per acre.
6. **Marriages.**—Number during the 918; rate per 1,000 of the population, 8.28.
7. **Births.**—

Males	1069	}	Total 2196.
Females	1127		

 Rate 19.50.
8. **Deaths.**—

Males	845	}	Total 1664.
Females	819		
9. **Natural Increase.**—For the year, 532.

Annual rate of mortality, 14.77.

Mean rate during years 1903-1912, 15.48.

Total deaths from zymotic diseases, 92.

Annual rate of mortality do. 0.82.

Mean rate of mortality do. years 1903-1912, 1.25.

NOTE.—“ Rate ”=per 1,000 per annum. All rates are calculated
on the Registrar General's data.

STATISTICS.

POPULATION.

The population on the basis of the Registrar-General's method of computation, estimated to mid-year 1913, was 110,882, or an increase of 1,370 for the year, equal to 1.24 per cent. of the total number of inhabitants.

The following table shows the changes in the population census by census since the year 1831, and the change per cent. :—

Census.	Population.	Variation.	Rate per cent.
1831	36732	..	..
1841	44933	+ 8201	+ 22
1851	54073	+ 9140	+ 20
1861	60940	+ 6867	+ 12
1871	70253	+ 9313	+ 15
1881	81823	+ 11570	+ 16
1891	†95420	+ 13597	+ 16
1901	95047	— 373	— 0.39
1911	107821	+ 12774	+ 13

† Including the district of Longwood, which was added in 1890, and had a Census population in 1891 of 5,406 persons.

+ Increase. — Decrease.

MARRIAGES.

The number of marriages solemnised in the Borough was 918, equal to 8.28 per 1,000 of the population, comparing with 966, the number for the year 1912, with a rate of 8.82 per 1,000 of the population.

The following table shows the average annual number of marriages in the Borough and in the Huddersfield Union in five yearly periods from 1876 to 1910, and the numbers for the years 1911, 1912, and 1913 :—

Periods.	Borough of Huddersfield.	Huddersfield Poor Law Union.	Average Population of the Borough.
1876–80	820	1178	78919
1881–85	852	1247	84633
1886–90	843	1279	91440
1891–95	844	1298	95336
1896–00	882	1384	95149
1901–05	916	1422	97821
1906–10	914	1486	104192
1911	971	1494	108144
1912	966	1523	109512
1913	918	1458	110882

BIRTHS.

In Tables A and No. 7 (post) will be found details of the birth-rates in the various districts of the Borough. The following short statement gives the population, births, and birth-rate for the years 1872, 1882, 1892, 1902, and 1912.

Year.	Population.	Births.	Birth-rate.
1872	71,780	2,682	37.5
1882	83,271	2,562	30.8
1892	95,373	2,214	23.3
1902	96,573	2,354	24.0
1912	109,512	2,056	18.8

It will be seen that the birth-rate has fallen practically 50 per cent. lower than the birth-rate for the year 1872, and 22 per cent. lower than the birth-rate for 1902.

A table showing the population, deaths, births, and natural increase of population year by year for the period 1872 to 1913 inclusive, is given on page 21.

During the year 2,196 births were registered, more by 140 than during 1912. The sexes and rates for the year and for each quarter are shown in the table below.

1913.	Males.	Females.	Totals.	Birth-rate.
1st Quarter.	281	257	538	19.47
2nd ,,	288	296	584	21.14
3rd ,,	245	276	521	18.86
4th ,,	256	297	553	18.59
Totals ..	1070	1126	2196	19.50

This table cannot be corrected by the Registrar-General's transferable births. Sufficient details are not available.

ENGLAND AND WALES, 1913.

BIRTH RATES, AND INFANTILE MORTALITY RATES.

	Estimated Population to Middle of 1913.	Number of Births, 1913.	Birth-rate per 1,000 persons living at all ages.	Infant Mortality Annual Death- rate of Infants under 1 year per 1,000 Births.
England & Wales	36,919,339	881,480	23.9	109
96 Great Towns ..	17,852,766	455,059	85.1	117
145 Smaller Towns	4,669,918	111,593	23.9	112
Huddersfield ..	110,882	2,196	19.50	103

Births in the Huddersfield Poor Law Union.

Sub. Reg. District.	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913
Huddersfield ..	1269	1313	1293	1233	1292	1111	1127	1057	1114	1001	1062	950	1002	966	1099	1059	1133	1104	1042	1091	1090	1071	1078	1055	1094	1117	1101	1022	1010	1015	1042
Almondbury ..	404	440	410	363	394	374	383	359	362	321	355	302	332	352	393	485	622	638	574	597	559	547	545	582	530	530	540	510	496	454	457
Kirkheaton ..	298	374	448	391	397	412	394	349	367	380	372	335	334	322	359	282	135	139	149	154	140	161	159	151	142	131	138	152	136	126	142
Kirkburton ..	341	371	317	330	382	338	346	298	328	303	278	297	286	282	255	289	280	290	270	306	310	332	292	306	297	288	317	308	291	309	285
New Mill ..	207	196	196	202	185	167	174	154	183	157	159	140	162	151	160	156	149	152	135	135	149	145	133	151	141	141	119	122	129	119	112
Holmfirth ..	307	289	299	278	268	273	290	241	262	231	234	223	214	236	204	221	190	188	183	202	196	202	167	197	184	183	176	190	163	157	149
Honley ..	355	373	351	334	376	342	329	323	345	336	303	258	294	290	291	316	270	272	284	297	284	276	270	266	305	265	273	223	273	230	247
Lockwood ..	510	544	508	484	473	507	463	449	455	459	438	395	484	402	504	608	621	651	573	614	614	638	633	677	588	662	681	633	622	611	668
Slaithwaite ..	279	294	283	249	254	260	245	249	273	308	315	295	274	278	226	239	212	224	196	217	212	208	216	215	230	224	242	194	224	239	219
Golcar ..	707	680	651	662	660	640	657	552	582	610	591	493	502	527	547	421	436	413	416	370	400	387	381	397	433	377	396	377	412	426	412
Totals ..	4677	4874	4756	4526	4681	4424	4408	4031	4271	4106	4107	3688	3884	3806	4038	4076	4048	4071	3822	3983	3954	3967	3874	3997	3944	3918	3983	3731	3756	3686	3733

For the information relating to the Poor Law Union I am indebted to Mr. Armitage, Clerk to the Guardians.
NOTE.—In July, 1898, Dalton was transferred from Kirkheaton district to Almondbury, which will explain the serious decrease in the former and increase in the latter.
In March, 1898, Lindley and Longwood were transferred from Golcar to Lockwood.

DIAGRAM No. 1.

DEATHS (ALL CAUSES).

Chart showing Percentage Departure from the Mean
year by year, 1870-1913.

Mean of Death-rates, 1870-1913,
19.01 per 1000 living.

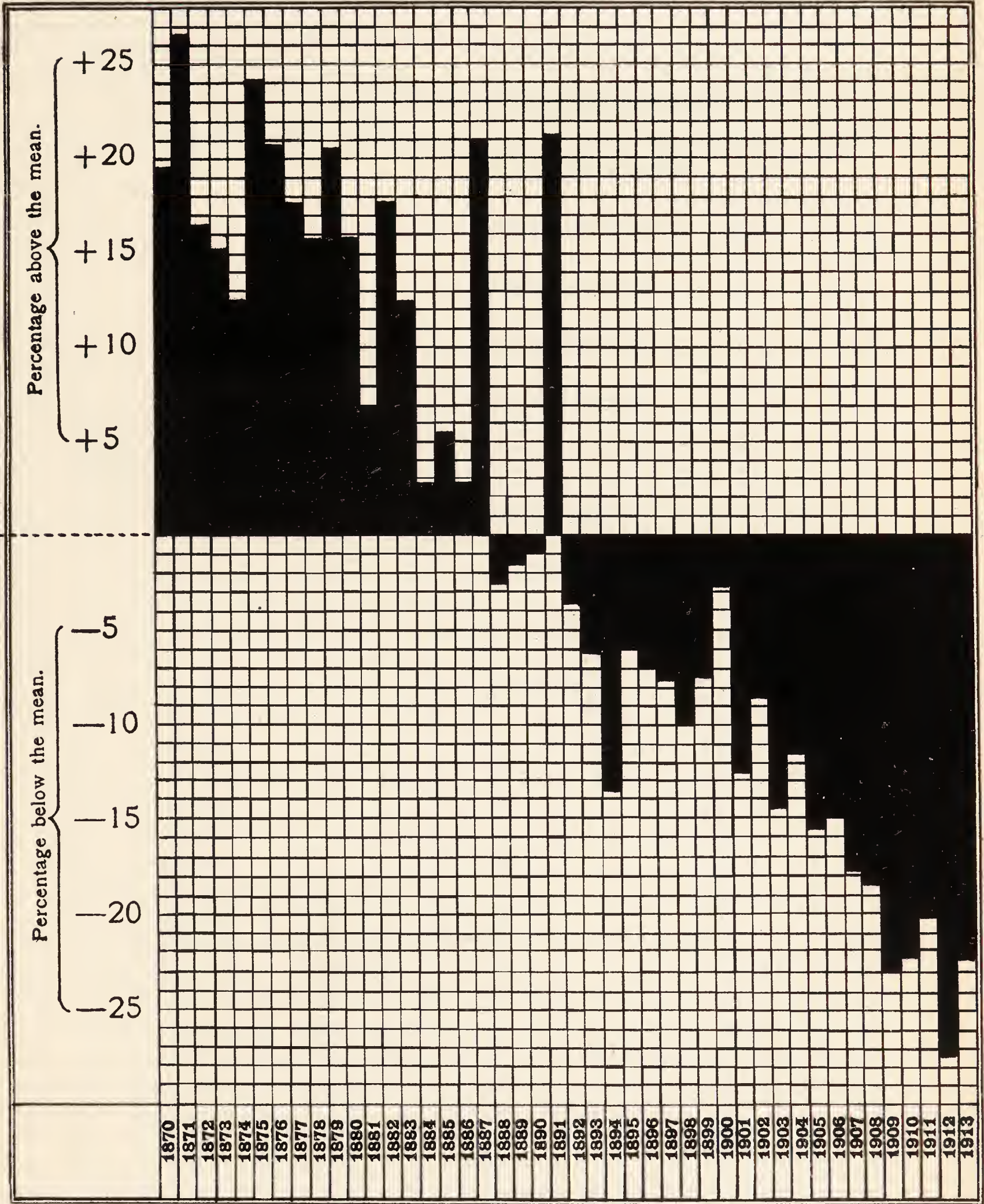
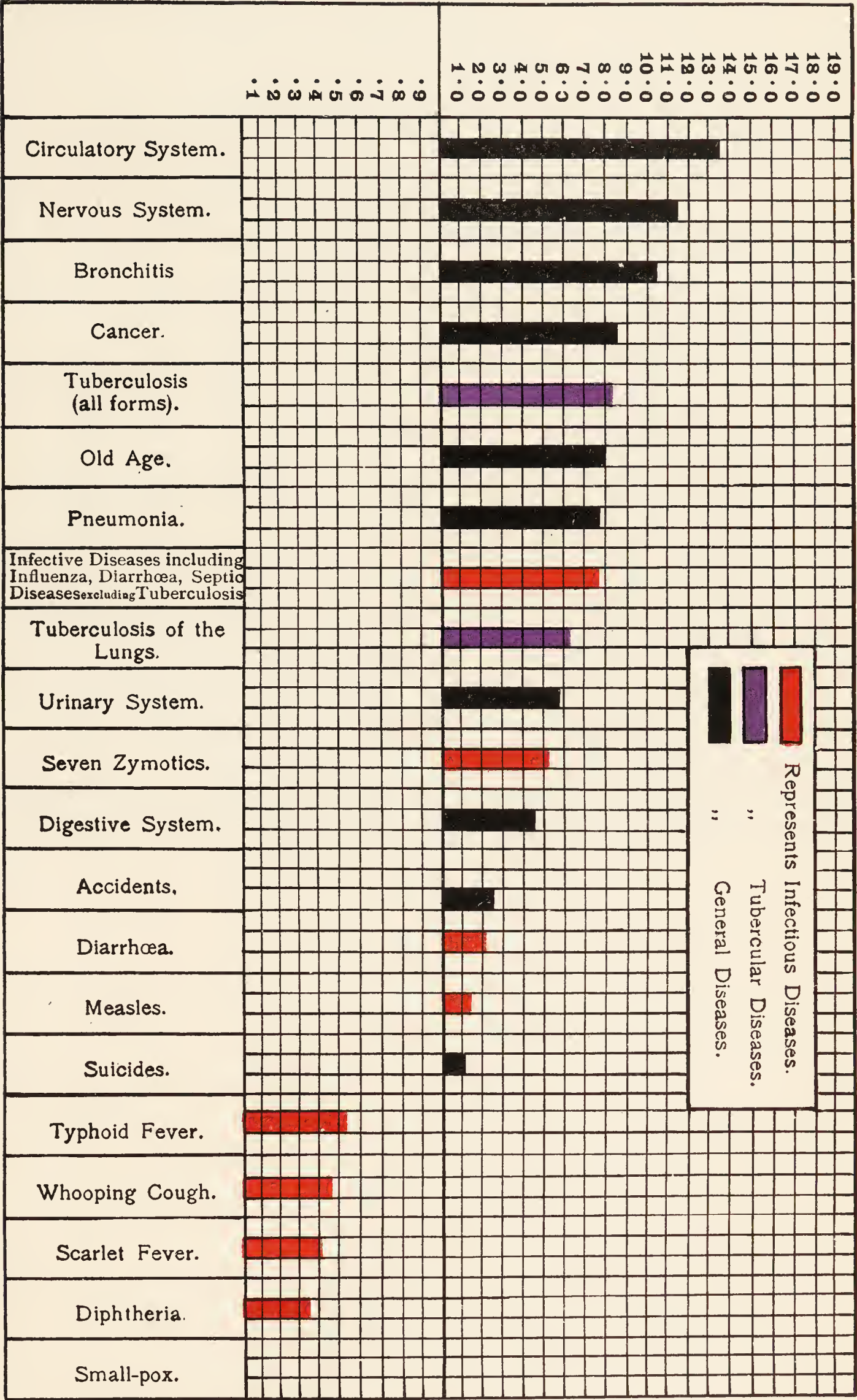


DIAGRAM No. 2.

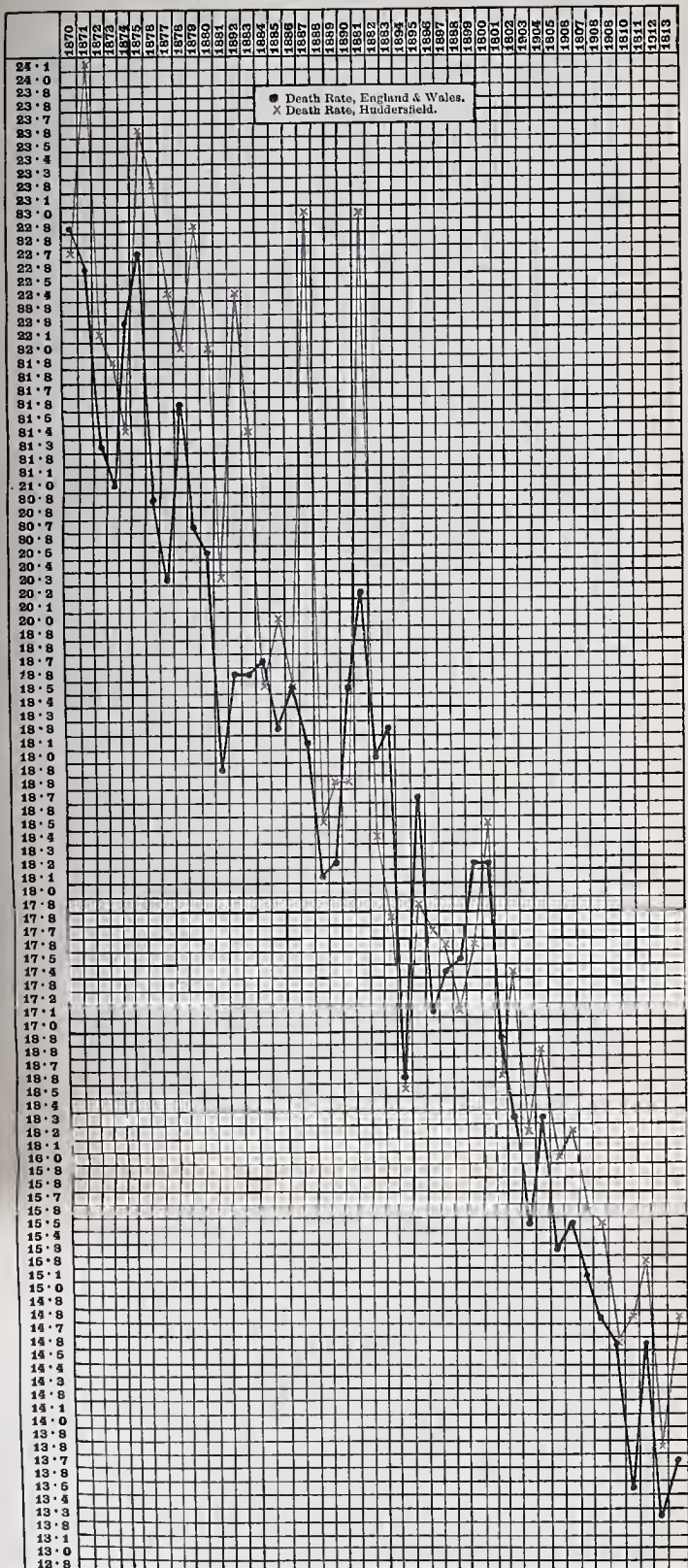
Diagram showing the proportion of the total deaths expressed as a percentage which certain diseases and classes of diseases have caused.



The facts represented graphically above are expressed in figures on page 13.

DIAGRAM No. 3.

Comparison between the Death Rates of England and Wales
and Huddersfield from 1870 to 1913.



MORTALITY.

During the year 1913 there were 1,664 deaths in the Borough.

The tabular statement below shows the proportion of the total deaths expressed as a percentage, which certain diseases and classes of disease have caused. The same facts are represented graphically in Diagram No. 2.

	Per cent.
All diseases of circulatory system, including all forms of Heart Disease *	13.64
All diseases of nervous system, including Convulsions, Apoplexy and Epilepsy	11.30
Bronchitis	10.46
Cancer	8.59
Tuberculosis (all forms)	8.47
Old Age	7.99
Pneumonia	7.81
All Infective Diseases, including the seven Zymotics, Influenza, Infective Enteritis, Summer Diarrhœa, Gangrene and Pyaemia, but excluding all forms of Tuberculosis	7.75
Tuberculosis of the Lungs	6.01
Urinary System, including all forms of Kidney Disease	5.95
Seven Zymotic Diseases	5.53
	Per cent.
Diarrhœa	2.22
Measles	1.50
Typhoid Fever	0.54
Whooping Cough	0.48
Scarlet Fever	0.42
Diphtheria	0.36
Smallpox	0.00
All diseases of Digestive Systems, including Intestinal Obstruction, Gastric Ulcer and Appendicitis ..	4.51
Accidents	2.76
Suicides	1.08
	<hr/> 101.85

Deaths at different age periods, expressed in percentages of the total deaths for 1911, 1912 and 1913 :—

				1911.	1912.	1913.
Aged under 1 year	..	..	..	17.19	13.21	13.64
„ 1 to 2 years	..	..	..	4.04	3.45	3.49
„ 2 to 5 years	..	..	..	3.85	3.45	3.06
„ 5 to 15 years	..	..	..	3.67	3.45	2.76
„ 15 to 25 years	..	..	..	3.67	3.98	4.21
„ 25 to 45 years	..	..	..	11.80	15.13	14.60
„ 45 to 65 years	..	..	..	26.79	27.87	27.82
„ 65 years and over	..	..	..	28.99	29.46	30.41

DEATHS IN PUBLIC INSTITUTIONS

of persons resident in the Borough.

In the Sanatorium for infectious diseases	33	deaths occurred.
In the Huddersfield Royal Infirmary	.. 85	„
In the Nursing Home	.. .. 6	„
In the Poor Law Workhouses	..105	„
In the West Riding Lunatic Asylums	.. 47	„

INFANT MORTALITY IN HUDDERSFIELD.

Before the special work against Infant Mortality was undertaken in Huddersfield the mean Infant Mortality Rate for the years 1877 to 1904 inclusive was 156. The mean from 1905 to 1913 inclusive is 110, a reduction of 29.5 per cent.

The saving of life on the above figures is accordingly 46 per 1,000 children born.

In Huddersfield during the past nine years (1905–1913) there have been 19,950 births, viz :—

1905	..	..	..	2256
1906	..	..	..	2301
1907	..	..	..	2189
1908	..	..	..	2348
1909	..	..	..	2318
1910	..	..	..	2164
1911	..	..	..	2122
1912	..	..	..	2056
1913	..	..	..	2196

19950 = 917 saving effected.

102 per annum = average.

DEATHS AND DEATH RATE.

					Deaths.	Death Rate.
1905	..	..	..	..	1605	16.05
1906	..	..	..	..	1638	16.18
1907	..	..	..	..	1601	15.61
1908	..	..	..	..	1645	15.54
1909	..	..	..	..	1539	14.64
1910	..	..	..	..	1571	14.76
1911	..	..	..	..	1635	15.17
1912	..	..	..	..	1507	13.81
1913	..	..	..	..	1664	14.77

Assuming infants under one year of age had continued to die at same rates as prevailed before adoption of special measures against Infant Mortality, the deaths and rates for the years 1905–1913 would have been :—

					Deaths.	Death Rates.
1905	..	..	..	..	1707	17.99
1906	..	..	..	..	1740	17.12
1907	..	..	..	..	1703	16.55
1908	..	..	..	..	1747	16.77
1909	..	..	..	..	1641	15.55
1910	..	..	..	..	1673	15.66
1911	..	..	..	..	1737	16.06
1912	..	..	..	..	1609	14.69
1913	..	..	..	..	1766	15.92

The above rates are “Uncorrected.”

On this basis the average death rate for the last four years, 1910–1913, would have been 15.58 per 1,000, whereas the actual figure is 14.63.

The saving, therefore, in the death rate by the reduction in the Infant Mortality rate is equivalent to 6 per cent. of the death rate.

The following three graphic representations and tabular statement relative to Infant Mortality in Huddersfield show (1) how the rate varies from the average of the 36 years 1877 to 1913, (2) the variation in the Infant Mortality rate year by year, (3) the diseases which caused the principle amount of Infant Mortality during the year, and (4) the Infant Mortality figure week by week since 1896.

Diagram No. 6 is of considerable interest. It shews that the two principal causes of death are Premature Birth and Bronchitis, followed closely by Diarrhœa and Pnuemonia, and, in conjunction with two well known facts, teaches us an important lesson.

Deaths of infants from Bronchitis and Pnuemonia are absent from the death returns in warm weather. Deaths of infants from Diarrhœa are absent from the returns in cold weather. Here is a key-note, a foundation, a base. These facts clearly show that such deaths come to infants from outside.

Infants can be, ought to be, and must be, protected from the outside influences which come to them and destroy them.

Premature births are different altogether from this point of view. The causes are frequently obscure. They commonly reside in the parents before conception, and are very largely outside the reach of Public Health Officers. They rather lie in the spheres of activity of the Clergy, Social Reformer, and the Educationalist.

Pending the arrival of the “Golden Age,” which will be marked by adequate resources for sanitation, it seems to be wise to devote the limited means at our disposal to work along those lines which promise the most readily accessible results.

DIAGRAM No. 4.

INFANT MORTALITY.

Diagram showing Departure from the Mean year by year
for the Thirty-Seven Years, 1877-1913.

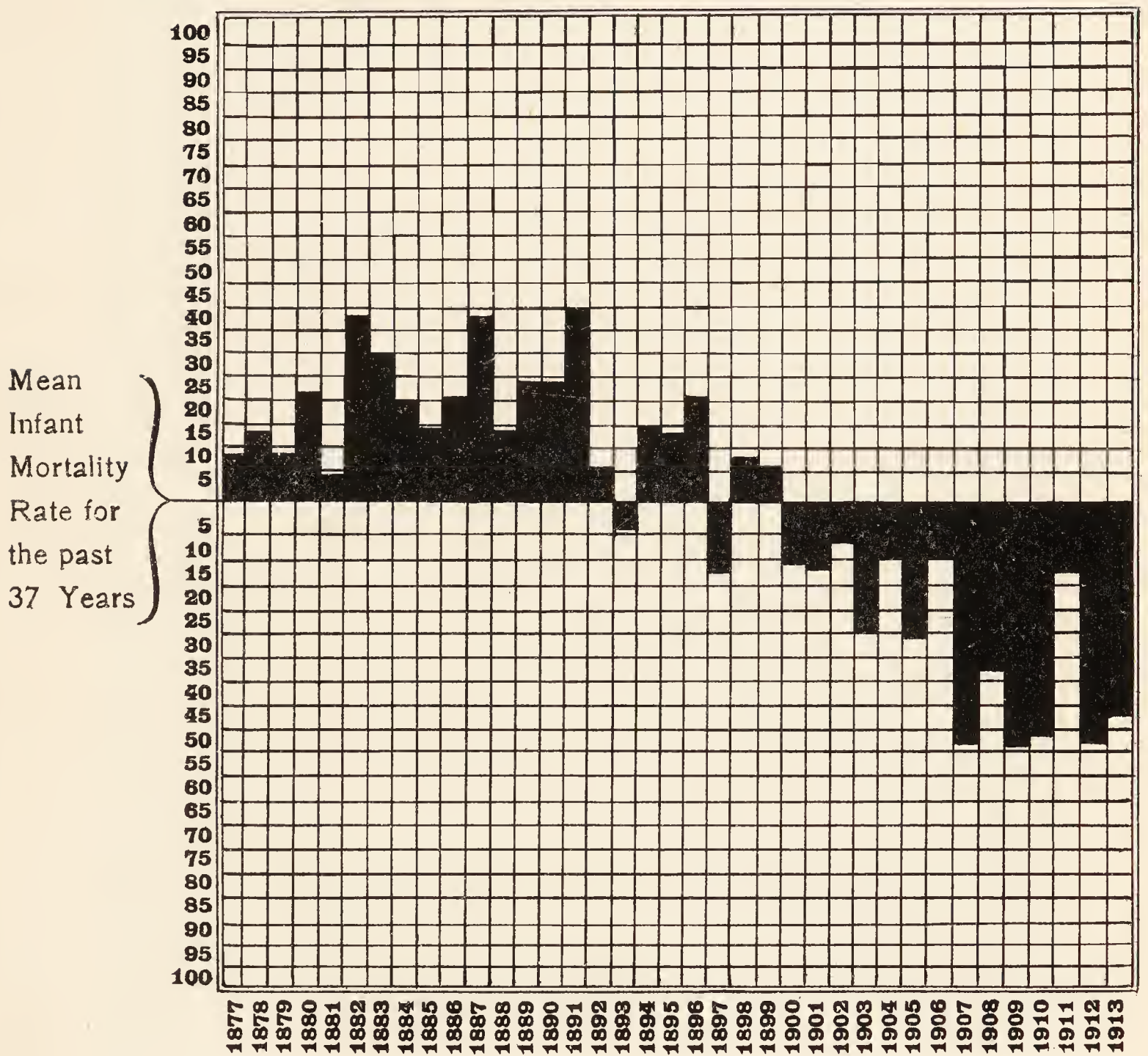




DIAGRAM No. 5.

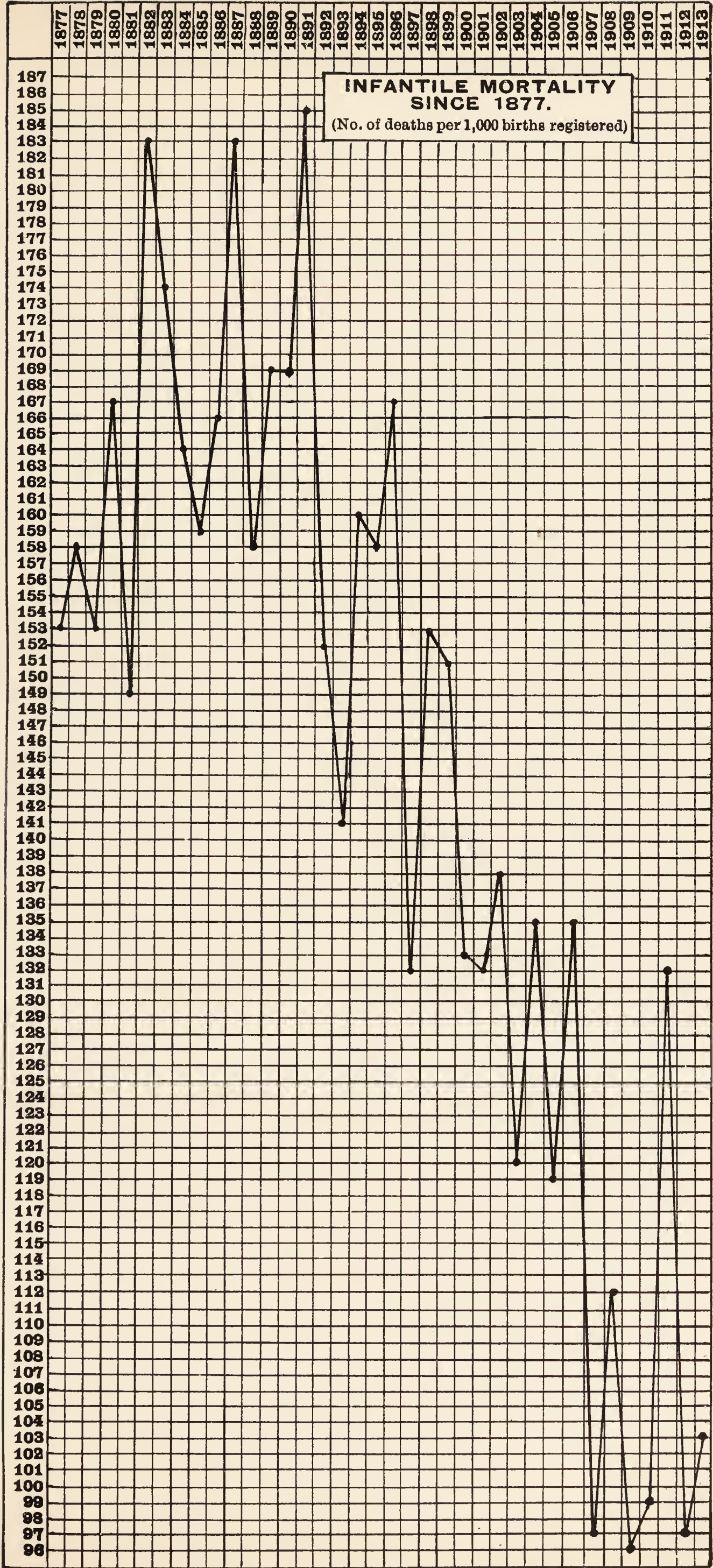
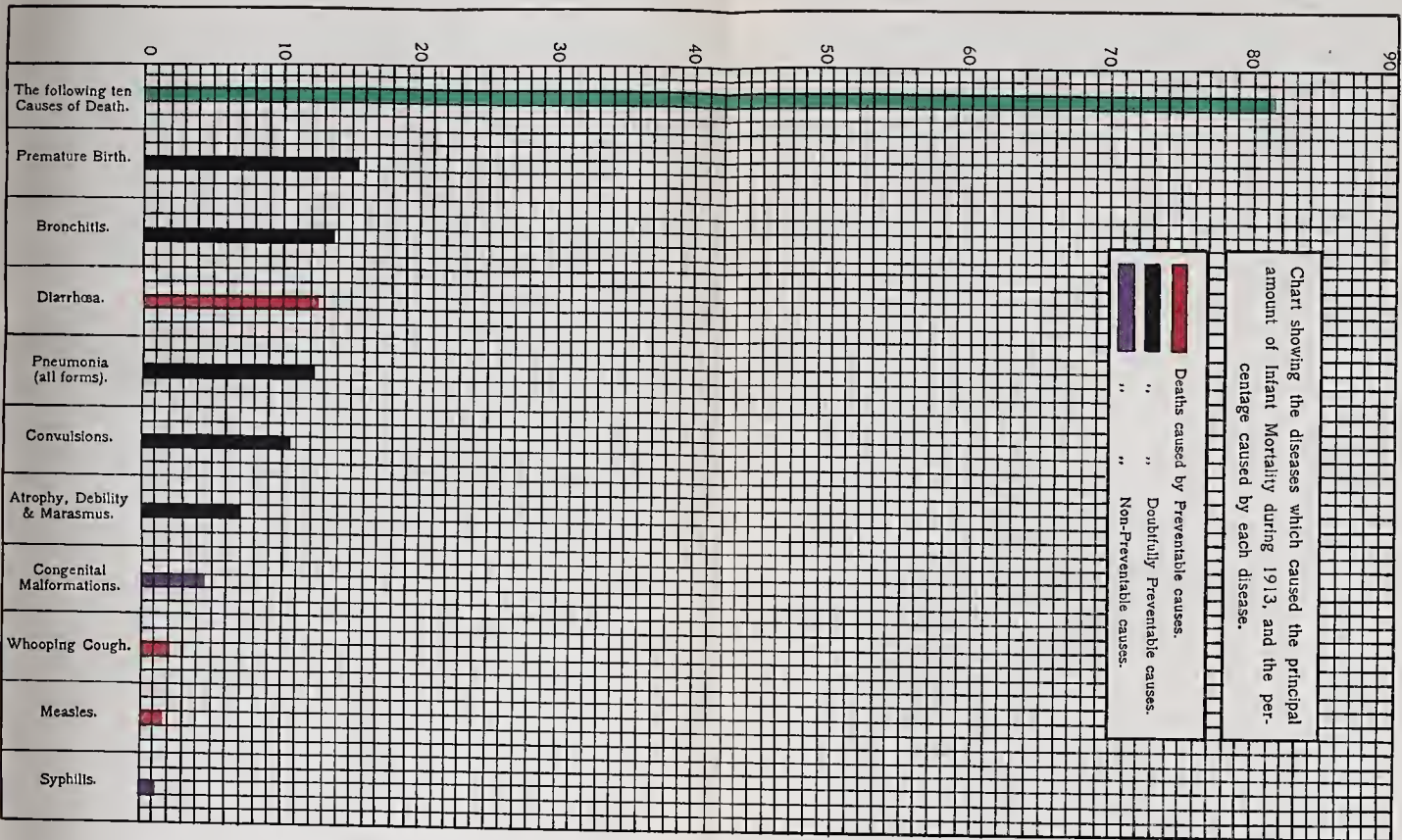


DIAGRAM NO. 6.

Chart showing the diseases which caused the principal amount of Infant Mortality during 1913, and the percentage caused by each disease.

Deaths caused by Preventable causes.
 " Doubtfully Preventable causes.
 " Non-Preventable causes.





INFANT MORTALITY FIGURES

Week by Week since 1896.

	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913
The first week	290	229	175	82	83	78	152	185	38	169	163	75	74	125	125	85	91	43
The first two weeks	187	221	124	115	77	92	172	117	56	196	129	77	89	98	122	83	71	80
The first three weeks	208	179	125	122	82	111	163	161	58	172	107	88	92	79	96	80	69	63
The first four weeks	203	163	133	128	74	106	156	123	53	177	79	87	85	97	101	95	76	89
The first five weeks	176	144	126	139	92	112	145	118	70	185	72	95	84	82	110	87	77	95
The first six weeks	169	131	134	142	98	107	156	123	80	189	72	92	92	83	109	108	75	85
The first seven weeks	186	130	134	135	92	99	147	121	81	179	67	91	95	85	110	99	85	79
The first eight weeks	173	125	145	141	92	93	150	123	88	166	76	95	91	95	107	89	90	76
The first nine weeks	167	120	143	132	93	91	154	130	102	162	85	89	94	100	105	96	100	83
The first ten weeks	182	119	138	130	91	94	153	128	102	155	86	87	91	100	107	92	112	75
The first eleven weeks	183	117	138	137	96	91	153	133	100	146	85	98	92	103	102	93	107	80
The first twelve weeks	185	122	142	133	99	96	141	141	107	143	81	96	85	104	108	108	109	81
The first thirteen weeks	188	124	143	135	99	104	139	132	113	139	87	99	86	98	110	114	108	78
The first fourteen weeks	189	129	146	141	105	109	146	136	115	136	90	103	83	103	108	117	112	84
The first fifteen weeks	183	127	142	141	117	110	145	140	112	132	86	102	83	105	101	114	113	86
The first sixteen weeks	182	129	136	142	124	108	145	140	114	133	89	100	85	102	102	114	113	84
The first seventeen weeks ..	183	130	133	140	121	106	142	136	116	130	93	103	87	102	104	116	117	82
The first eighteen weeks	178	129	130	138	122	109	141	134	121	123	93	103	85	102	102	113	116	83
The first nineteen weeks	176	128	128	134	124	110	141	138	124	118	95	100	87	101	97	110	114	84
The first twenty weeks	179	129	130	131	129	108	143	137	124	117	94	99	87	100	97	109	115	86
The first twenty-one weeks ..	173	127	130	130	127	103	143	137	123	116	93	100	85	97	93	109	117	83
The first twenty-two weeks ..	173	124	131	126	125	101	140	136	121	114	94	101	86	95	93	104	119	81
The first twenty-three weeks ..	168	127	125	123	123	99	137	130	117	113	96	100	86	92	91	106	116	82
The first twenty-four weeks ..	166	122	124	123	122	97	137	126	115	114	98	99	84	93	91	102	113	82
The first twenty-five weeks ..	166	121	121	121	121	98	135	123	116	109	95	96	83	93	92	104	110	82
The first twenty-six weeks ..	164	118	120	120	120	99	136	122	117	109	98	96	82	92	93	100	108	81

INFANT MORTALITY FIGURES

Week by Week since 1896.—*Continued.*

	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913
The first twenty-seven weeks	164	114	117	118	118	99	135	123	118	109	95	94	84	94	96	100	104	82
The first twenty-eight weeks	162	112	115	116	116	99	134	122	120	108	97	92	82	95	94	97	102	82
The first twenty-nine weeks	167	113	114	116	113	101	134	121	118	107	100	90	81	92	95	95	106	82
The first thirty weeks	173	112	115	116	112	111	133	119	123	105	104	88	82	95	94	99	105	81
The first thirty-one weeks	169	112	115	116	115	119	132	119	126	106	107	87	83	96	96	103	101	83
The first thirty-two weeks	169	113	114	118	119	126	133	118	131	104	109	85	84	93	94	114	99	84
The first thirty-three weeks	166	115	115	123	122	130	135	118	139	105	112	84	86	93	95	125	98	84
The first thirty-four weeks	166	114	119	133	123	132	134	118	141	105	116	84	88	93	94	133	98	88
The first thirty-five weeks	168	117	124	147	129	136	136	117	139	112	122	83	91	95	93	132	93	91
The first thirty-six weeks	168	118	129	154	128	137	136	117	140	114	127	82	90	95	95	137	96	96
The first thirty-seven weeks	166	119	140	155	131	136	138	116	140	115	131	81	91	93	94	138	94	101
The first thirty-eight weeks	167	122	145	155	131	138	139	118	140	113	136	81	92	95	95	139	95	103
The first thirty-nine weeks	169	122	148	160	131	137	142	119	139	113	138	85	93	95	96	142	94	104
The first forty weeks	166	123	150	159	133	134	142	118	139	111	139	84	91	96	97	141	97	106
The first forty-one weeks	163	122	152	160	134	133	145	120	140	110	140	85	93	96	97	141	96	107
The first forty-two weeks	160	122	151	159	135	134	149	119	137	111	141	89	98	95	96	140	95	106
The first forty-three weeks	160	122	152	158	137	134	148	119	137	111	140	89	104	95	98	139	94	105
The first forty-four weeks	160	123	150	156	137	132	147	120	133	114	140	94	103	94	98	138	93	104
The first forty-five weeks	160	123	151	155	136	132	145	120	131	114	140	95	105	93	96	138	92	105
The first forty-six weeks	165	123	150	155	136	131	143	119	131	112	139	95	108	92	97	136	92	104
The first forty-seven weeks	165	124	150	153	134	131	141	119	130	112	139	96	109	93	99	137	91	103
The first forty-eight weeks	164	124	152	153	134	130	140	121	127	112	137	96	110	94	100	134	92	102
The first forty-nine weeks	164	126	150	152	133	130	137	120	128	114	135	97	111	94	100	134	92	102
The first fifty weeks	167	125	151	151	133	130	138	120	129	113	134	96	113	94	99	135	93	103
The first fifty-one weeks	166	127	152	151	133	132	137	121	133	114	135	96	111	94	98	133	95	102
The first fifty-two weeks	168	132	153	151	133	132	138	120	135	119	135	97	112	96	99	132	97	102
The first fifty-three weeks	167				138		138						112					103

SAVING OF INFANT LIFE.

The number of children born during the years 1907-8-9-10-11-12-13 was 15,393. If the Infant Mortality figure during these seven years had been 154, that is the average rate for the 30 years 1877-1906, the number of deaths under one year of age would have been 2371. The number of deaths which actually occurred during this seven years' period was 1,619. There is thus an apparent local saving of life of 752 persons.

The following figures represent graphically the foregoing statement :—

Former Rate.



Present Rate.



Lives Saved.



MIDWIVES REPORT, 1913.

During the year 1913 there were 23 registered midwives practising in the County Borough of Huddersfield. Four of these acted solely as monthly nurses, and four others did not attend any cases during the year. Thus fifteen were in active work. These attended 1,057 cases out of a total of 2,196 births known to have occurred in the Borough. A doctor was present in 280 of these cases, being engaged beforehand in 222 cases, and sent for on account of abnormalities in 58 cases. The midwives undertook 777 cases without medical aid.

Since 1st April, 1910, the regulations made under power conferred by the Midwives' Act have been enforced in Huddersfield.

Three deaths from Puerperal Fever were notified during 1913. In only one case was the patient attended by a registered midwife and a medical man was also in attendance.

Of the 23 registered midwives only eight are trained. The standard of cleanliness, however, is well maintained among the 15 untrained midwives. All are regularly visited by a medical officer, and the inspection prescribed by the Regulations adequately carried out; special attention is given to secure the surgical cleanliness of implements and apparatus employed at labours. The improvement secured by these inspections is satisfactory. Mrs. B———t, one of the oldest practising untrained midwives, has again attended the largest number of cases, 188 in all, 161 of this number without the assistance of a doctor.

The following table gives the Population, Births, and Deaths, with the excess of births over deaths for the past 42 years :—

Years.	Population.	Births.	Deaths.	Excess of Births over Deaths.
1913	110882	2196	1664	532
1912	109512	2056	1507	549
1911	108144	2122	1635	487
1910	106820	2164	1571	593
1909	105492	2318	1539	779
1908	104178	2348	1645	703
1907	102877	2189	1601	588
1906	101591	2301	1638	663
1905	100317	2256	1605	651
1904	99056	2243	1657	586
1903	97808	2252	1584	668
1902	96573	2354	1710	644
1901	95351	2175	1581	594
1900	95074	2376	1752	624
1899	95112	2374	1671	703
1898	95149	2295	1625	670
1897	95187	2365	1666	699
1896	95224	2096	1712	384
1895	95261	2151	1699	452
1894	95299	1988	1563	425
1893	95336	2311	1695	616
1892	95373	2214	1746	468
1891	95410	2324	2189	135
1890	94253	2167	1804	363
1889	92825	2276	1738	538
1888	91419	2243	1686	557
1887	90034	2487	2063	424
1886	88670	2385	1727	658
1885	87327	2530	1745	785
1884	86004	2576	1707	869
1883	84450	2488	1799	689
1882	83271	2562	1857	705
1881	82113	2567	1665	902
1880	81780	2545	1797	748
1879	80245	2598	1871	727
1878	78900	2759	1733	1026
1877	77600	2705	1735	970
1876	76072	2664	1760	904
1875	75069	2735	1770	965
1874	74150	2571	1585	986
1873	72940	2641	1525	1116
1872	71780	2682	1674	1008

GENERAL, ZYMOTIC, TUBERCULAR, AND INFANTILE MORTALITY.

The following is a table showing the rates of Mortality in Huddersfield for the year 1913 and **each of its quarters**, from all causes, from the seven Zymotic diseases, from all forms of Tuberculosis, and the ratio of the deaths in children under one year, to a thousand births in the same periods, with the infants mortality figure in the 96 large Towns.

Quarter.	HUDDERSFIELD.				96 TOWNS.	
	All Causes.	Seven Zymotics.	Tuberculosis: all forms.	Children under one per 1,000 births.	All Causes.	Children under one per 1,000 births.
I.	16.36	0.69	1.63	78	16.9	125
II.	14.88	0.43	1.16	84	13.5	91
III.	14.26	1.56	1.19	154	12.7	125
IV.	13.68	0.61	1.04	101	14.2	125
Year 1913	14.77	0.82	1.25	103	14.3	117

SIMILAR TABLE FOR 1912.

Quarter.	HUDDERSFIELD.				95 TOWNS.	
	All Causes.	Seven Zymotics.	Tuberculosis: all forms.	Children under one per 1,000 births.	All Causes.	Children under one per 1,000 births.
I.	15.98	0.66	1.58	108	16.2	113
II.	14.18	0.95	1.36	107	13.1	93
III.	10.89	0.62	0.84	69	11.4	86
IV.	14.18	1.10	0.99	104	14.5	111
Year 1912	13.81	0.83	1.19	97	13.8	101

SMALL POX.

The Borough was free from this disease during 1913.

See other Notifiable Diseases (Small Pox included there).

INFECTIOUS DISEASES.

The Zymotic death rate for the year compares favourably with the mean rate for the ten preceding years, 1903–1912. The rates being 0.82 and 1.25 per 1,000 respectively. The rate is almost identical with the rate for 1912, which was 0.83 per 1,000.

The following tabular statement shows the deaths year by year from each of the seven Zymotic diseases since 1907 :—

			1907	1908	1909	1910	1911	1912	1913
Measles	..	..	10	66	18	10	17	21	25
Scarlet Fever	..	..	6	3	9	18	16	22	7
Diphtheria	..	..	8	8	20	15	22	9	6
Whooping Cough	..	..	18	14	15	29	11	26	8
Typhoid and other Fevers	..	..	11	9	11	5	8	2	9
Zymotic Enteritis	..	..	20	59	26	30	123	11	37
Small Pox	..	..	0	0	0	0	0	0	0
			73	159	99	107	197	91	92

The percentage of the Zymotic death rate which each Zymotic disease has been responsible for during the years 1912 and 1913, is shown below :—

	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Typhoid Fever.	Zymotic Enteritis.	Small Pox.
1912	23.1	24.2	9.9	28.6	2.2	12.1	..
1913	27.2	7.6	6.5	8.7	9.8	40.2	..

SCARLET FEVER.

The number of cases of Scarlet Fever, known in the Borough during the year, amounted to 288, as compared with 706 for 1912, 540 for 1911, and 937 for 1910. The average number of cases for the 33 years, 1881-1913, was 365.

Out of the total cases notified, 281, equal to 97.57 per cent., were treated in the Sanatorium. The table on page 25 shows that this is the highest percentage of cases removed to the hospital for so far back as the records extend. Out of these 281 cases treated in hospital seven deaths occurred. The mortality per hundred cases treated amounted to 2.5, comparing with 2.8, the case mortality for hospital treated cases during 1912. These facts show the continued appreciation and value of the hospital to the inhabitants of Huddersfield.

No deaths occurred among the seven home-treated cases.

The death rate from this disease during the year was 0.06 per 1,000, as against 0.20 per 1,000 for 1912, and 0.11 per 1,000, the average for the 10 years, 1903-1912.

Special measures have been taken to combat this disease during the latter part of the year, each case notified being visited by an Assistant Medical Officer of Health, and complete enquiry made, with a view to trace the origin of each case and to prevent extension of the disease.

DIAGRAM No. 7.

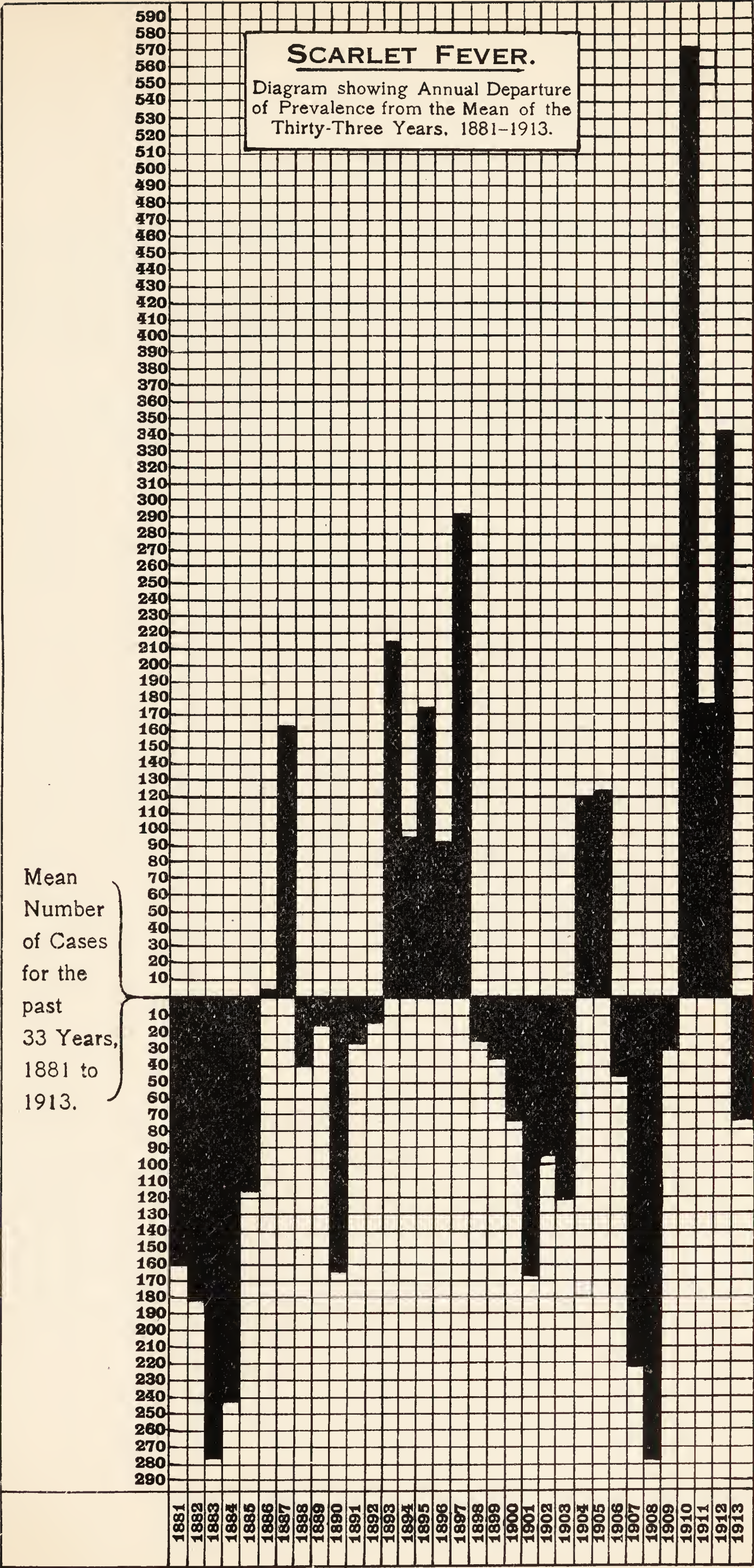


Table showing the incidence of Scarlet Fever in Huddersfield since 1875, together with other particulars.

(Notification of Scarlet Fever, first adopted in 1876. Hospital Isolation of Scarlet Fever commenced about same time).

Year.	Estimated population.	Total No. of Cases notified.	No. under 5 years of age.	Total No. of Deaths registered.	No. of Cases treated in Hospit'l	Attack rate per 1000 population.	Mortality per 1000 population.	Per-centage-removed to Hospital.	No. of Deaths in Hospit'l	Notes.
1875	75069	..	..	45	..	..	0.6	..	..	Old reports by M.O.H. state that notification not yet carried out satisfactorily
1876	76072	..	..	83	..	..	1.1	..	..
1877	77600	128	..	64	81	..	0.8	..	1	
1878	78900	250	..	48	177	..	0.6	..	4	
1879	80245	..	..	90	154	..	1.1	..	12	
1880	81780	138	61	23	30	1.69	0.28	21.73	6	This year the Medical Men without exception notified loyally. (See Annual Report of M.O.H.)
1881	82113	206	71	17	119	2.51	0.21	57.76	7	
1882	83271	184	51	22	119	2.21	0.26	64.67	9	
1883	84450	91	..	7	43	1.08	0.08	45.05	2	
1884	86004	123	..	7	94	1.43	0.08	76.42	2	
1885	87327	251	..	11	185	2.87	0.13	73.70	4	
1886	88670	369	109	33	243	4.16	0.37	65.85	12	
1887	90034	526	144	31	364	5.84	0.35	69.20	17	
1888	91419	326	85	26	233	3.57	0.29	71.47	13	
1889	92825	354	106	26	309	3.81	0.28	87.28	17	
1890	94253	204	48	7	169	2.16	0.07	82.84	5	
1891	95410	341	101	30	296	3.57	0.31	86.80	17	
1892	95373	354	67	18	322	3.71	0.19	90.96	15	
1893	95336	579	129	25	509	6.07	0.26	87.91	17	
1894	95299	462	107	23	397	4.85	0.24	85.93	16	
1895	95261	539	122	20	485	5.66	0.21	89.98	9	
1896	95224	456	103	18	406	4.79	0.19	89.04	11	
1897	95187	658	167	32	608	6.91	0.34	92.40	20	
1898	95149	344	116	10	314	3.62	0.10	91.25	6	
1899	95112	333	66	7	318	3.50	0.07	95.49	5	
1900	95074	294	84	18	268	3.09	0.19	91.16	15	
1901	95351	198	65	6	183	2.08	0.06	92.42	6	
1902	96573	270	65	11	250	2.80	0.11	92.59	10	
1903	97808	244	72	15	230	2.49	0.15	94.26	15	
1904	99056	485	102	10	457	4.90	0.10	94.23	9	
1905	100317	488	117	11	461	4.86	0.11	94.47	8	
1906	101591	322	80	7	287	3.17	0.07	89.13	7	
1907	102877	145	35	6	130	1.41	0.06	89.66	5	
1908	104178	88	29	3	76	0.84	0.03	86.36	3	
1909	105492	337	78	9	311	3.19	0.09	92.28	7	
1910	106820	937	238	18	907	8.77	0.17	96.80	15	
1911	108144	540	116	16	521	4.99	0.15	96.48	15	
1912	109512	706	155	22	684	6.45	0.20	96.88	19	
1913	110882	288	61	7	281	2.60	0.06	97.57	7	

Table showing the number of cases of **Scarlet Fever** known to have existed in Huddersfield during the years 1900-1913, the number occurring in each quarter of these years, and the deaths registered from the same disease ; also the average cases and deaths per quarter in the five years 1900-1904 and 1905-1909.

Quarters.	1900		1901		1902		1903		Averages of five years 1900-1904		1905		1906		1907		1908		1909		Averages of five years 1905-1909		1910		1911		1912		1913	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
I.	66	2	25	2	49	..	69	4	57	2	172	3	97	1	41	1	27	1	35	2	74	2	249	7	148	3	96	4	133	6
II.	97	6	64	..	56	1	66	5	71	3	87	1	69	2	29	1	30	2	78	2	59	1	190	3	104	7	263	5	54	..
III.	68	6	69	4	83	4	60	5	84	4	87	2	97	1	30	2	15	..	51	1	56	1	268	5	105	3	145	4	52	..
IV.	63	5	40	..	82	6	49	1	86	3	142	5	59	3	45	2	16	..	173	4	87	3	230	3	183	3	202	9	49	1
Year.	294	19	198	6	270	11	244	15	298	12	488	11	322	7	145	6	88	3	337	9	276	7	937	18	540	16	706	22	288	7

TYPHOID FEVER.

The prevalence of this disease during the year has been well below the mean, 20 cases have been notified as against 43, the average for the ten years ended 1912. This is, however, not quite so satisfactory as in 1912, when the number was 14.

Nine deaths took place during the year, seven of which occurred in the Sanatorium, one, a "transferable," death taking place in the Storthes Hall Asylum, and one at home. The death rate for the year was 0.08 per 1,000 inhabitants.

Sixteen out of the 20 cases were treated in the Sanatorium.

The four remaining cases were treated at home ; among these a single death occurred.

A reference to the table on page 44 will show the number of cases, the numbers treated at home and in the Sanatorium, and the case mortality per 100 cases treated, both at home and in the Sanatorium, year by year, since 1893.

Table showing the number of cases of **Typhoid Fever** known to have existed in Huddersfield during the years 1900–1913, showing the number occurring in each quarter of these years, and the deaths registered from the same disease, also the average cases and deaths per quarter in the five years 1900–1904 and 1905–1909.

Quarters.	1900		1901		1902		1903		1904		Averages of five years 1900-1904		1905		1906		1907		1908		1909		Averages of five years 1905-1909		1910		1911		1912		1913	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
I.	9	3	4	1	8	1	8	3	9	1	8	2	10	4	11	3	10	7	1	1	24	4	11	4	7	2	6	..	5	1	3	1
II.	15	5	14	..	3	2	5	..	5	1	8	1	7	4	7	..	5	4	4	3	7	5	6	3	2	..	3	..	1	..	2	1
III.	13	6	30	10	7	..	10	1	26	1	17	4	31	6	25	3	9	..	3	..	6	..	15	2	8	3	15	1	3	..	5	2
IV.	16	6	37	7	8	2	14	3	21	4	19	4	24	3	32	3	7	..	18	5	8	2	18	2	8	..	24	7	5	1	10	5
Year.	53	20	85	18	26	5	37	7	61	7	52	11	72	17	75	9	31	11	26	9	45	11	50	11	25	5	48	8	14	2	20	9

DIPHTHERIA.

The number of cases from this disease during 1912, was 62. This is the lowest number from this disease obtaining in the Borough since the year 1905, when the number was 45; and compared with 106, the number for 1912, 134 for 1911; and 89 the average number for the ten years, 1903 to 1912.

Of the total notified cases, 55, equivalent to 88.71 per cent., were treated in Hospital with a case mortality of 10.9. The remaining 11.29 per cent. of the cases notified, namely 7, were treated at home and resulted in a case mortality of 28.6.

Six deaths occurred during the year from this disease, of which four took place in the Sanatorium. The death rate, 0.05 per 1,000 inhabitants, was the lowest since the year 1900, and compares with 0.08, the rate for 1912. The mean rate for the ten years ended 1912, is 0.13 per 1,000.

SUMMER DIARRHŒA.

The number of cases notified in pursuance of the Huddersfield Improvement Act, 1880, Section 65, was 266. One hundred-and-fourteen notifications referred to Infants under one year of age, and the remaining 152 to Infants between the age of one and five years.

The procedure adopted on the receipt of each notification was as follows :—

A Sanitary Inspection of the dwelling and its surroundings was made immediately. All accumulations of refuse in the vicinity of the house were cleared away forthwith, the receptacles for refuse, backyards, walls, and so forth, were disinfected by spraying with an efficient chemical germicide, and the drains were immediately flushed.

Isolation and treatment during the year of 15 of the worst cases was found to be possible in the Sanatorium. Nine of these died.

The following statement shows the number of cases notified year by year, since July 1st, 1908, the date on which the disease became notifiable within the Borough.

Year.				Cases.	Deaths.	
1908 (since July 1st)	..			349	..	48
1909	..	..	..	156	..	24
1910	..	..	..	206	..	28
1911	..	..	..	769	..	94
1912	..	..	..	70	..	10
1913	..	..	..	266	..	35

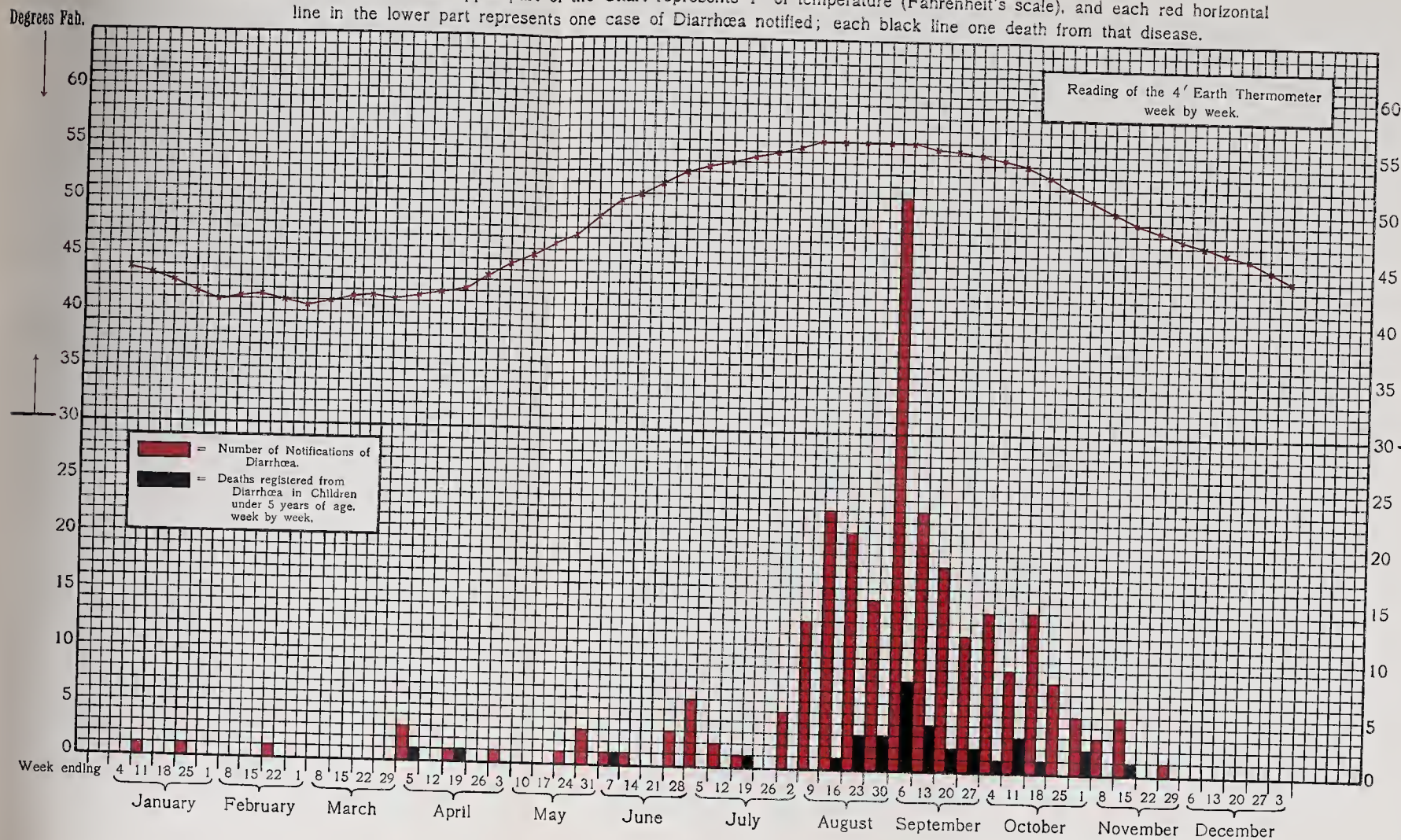
The accompanying chart shows the relation between the number of notifications received, the deaths and the reading of the 4ft. earth thermometer, week by week, throughout the year.

ILLEGITIMATE BIRTHS AND DEATHS AMONG ILLEGITIMATE CHILDREN.

From Table D. (post) it may be seen that 4.2 per cent. of the total births were of illegitimate children. The number of deaths among the latter amounted to 11.2 per cent. of the total deaths.

DIAGRAM No. 8.

Each horizontal line in the upper part of the Chart represents 1° of temperature (Fahrenheit's scale), and each red horizontal line in the lower part represents one case of Diarrhoea notified; each black line one death from that disease.



CASES OF TUBERCULOSIS ADMITTED TO THE HUDDERSFIELD SANATORIUM SINCE JANUARY 1st, 1912.

No.	Patient.	Age.	Date of Admission.	Weight on Admission.	Date of Discharge.	Weight on Discharge.	Condition on Discharge.	Subsequent History as at January, 1914.
1	L. D.	19	5th Jan., 1912	8 st. 2 lbs.	27th April, 1912	6 st. 12½ lbs.	Worse	Died 1st June, 1912.
2	T. K.	19	25th Jan., 1912	Impossible to weigh				Died in Sanatorium, 29th April, 1912.
3	R. M.	48	29th Jan., 1912	9 st. 8 lbs.	27th April, 1912	8 st. 4¾ lbs.	Worse	Died 19th May, 1912.
4	T. F.	47	6th Feb., 1912	8 st. 10¼ lbs.	27th Mar., 1912	9 st. 8½ lbs.	Disease apparently arrested	In full work.
5	T. S.	47	(Re-admission) 22nd Feb., 1912	10 st. 0¾ lbs.	7th May, 1912	10 st. 12½ lbs.	Disease apparently arrested	Working.
6	P. K.	35	10th April, 1912	9 st. 3 lbs.	12th June, 1912	10 st. 3 lbs.	Disease arrested	Working.
7	J. P. B.	22	30th April, 1912	9 st. 3 lbs.	19th Nov., 1912	10 st.	Improved general condition	Died June 15th, 1913.
8	A. E. J.	27	30th April, 1912	7 st. 5¾ lbs.				Died in Sanatorium, 19th June, 1912.
9	J. W. W.	39	10th May, 1912	8 st 3¾ lbs.	13th June, 1912			Heart Disease.
	(Re-admitted)							Went home because of wife's illness,
								re-admitted 13th July, 1912.
								Left at own request, died 5th March, 1913.
10	H. H.	20	20th May, 1912	8 st. 7 lbs.	21st Aug., 1912	8 st. 3¼ lbs.	Improved general condition	Died August 16th 1913.
11	S. T.	19	24th May, 1912	8 st. 6 lbs.	30th Sept., 1912	9 st. 9½ lbs.	Improved general condition	Improvement not maintained.
12	F. V.	27	25th May, 1912	8 st. 4½ lbs.	3rd Dec., 1912	9 st. 7 lbs.	Disease not arrested	Died January 22nd, 1913.
13	B. E.	25	18th June, 1912	8 st. 9¾ lbs.	26th Aug., 1912	10 st. 1¼ lbs.	Disease apparently arrested	Working.
14	D. S.	25	18th June, 1912	8 st. 13½ lbs.	30th Sept., 1912	10 st. 1½ lbs.	Disease apparently arrested	Not able to work.
15	B. S.	33	20th June, 1912	10 st.	11th Sept., 1912	11 st. 11 lbs.	Disease not arrested	Died January 12th 1914.
16	F. G.	33	25th June, 1912	7 st. 9½ lbs.	6th Sept., 1912	8 st. 2 lbs.	Disease not arrested	Not able to work.

Cases of Tuberculosis admitted to the Sanatorium since January 1st, 1912.—Continued.

No.	Patient.	Age.	Date of Admission.	Weight on Admission.	Date of Discharge.	Weight on Discharge.	Condition on Discharge.	Subsequent History as at January, 1914.
17	F. L.	24	23rd July, 1912	10 st. 1½ lbs.	23rd Sept., 1912	11 st. 0¾ lbs.	Disease apparently arrested.	Working.
18	F. N.	18	21st Aug., 1912	7 st. 11½ lbs.	2nd Dec., 1912	9 st. 5¼ lbs.	Disease arrested	Working.
19	W. J. G.	38	27th Aug., 1912	9 st. 1½ lbs.	27th Jan., 1913	10 st. 9 lbs.	Disease arrested	Died January 23rd, 1914
20	H. A.	34	3rd Sept., 1912	7 st. 6 lbs.	6th Oct., 1912	Unable to be weighed	Worse	Died October 13th, 1912.
21	R. E.	39	12th Sept., 1912	11 st. 3¼ lbs.	24th Dec., 1912	12 st. 2¾ lbs.	Improved	Died December 11th, 1913.
22	M. H.	42	17th Sept., 1912	7 st. 13¾ lbs.	12th Nov., 1912	9 st. 0½ lbs.	Disease apparently arrested	Working.
23	T. M.	31	8th Oct., 1912	7 st. 12 lbs.	27th Jan., 1913	9 st. 4 lbs.	Disease apparently arrested	Working.
24	W. A. W.	18	9th Oct., 1912	8 st. 1¼ lbs.				Died in Sanatorium, January 10th. 1913.
25	S. C.	19	12th Oct., 1912	6 st. 10¼ lbs.	20th Nov., 1912	7 st. 2¼ lbs.	Improving	Working.
26	S. T.	19	15th Oct., 1912	7 st. 7¼ lbs.	13th Jan., 1913	8 st. 6¼ lbs.	Disease apparently arrested	Not working.
27	B. W.	25	9th Nov., 1912	8 st. 1¼ lbs.	20th Nov., 1912	8 st. 7 lbs.		
	(Re-admitted)		21st May, 1913	9 st. 9¾ lbs.	28th Jan., 1914	10 st. 3¾ lbs.	Improving	Working.
28	H. R.	20	12th Nov., 1912	7 st. 13¼ lbs.	28th Nov., 1912	Impossible to weigh	Not improved	Died December 20th, 1912.
29	T. M.	48	20th Nov., 1912	8 st. 12½ lbs.	14th April, 1913			
	(Re-admitted)		16th July, 1913	8 st. 7½ lbs.	27th Dec., 1913	8 st. 11 lbs.	Disease not arrested	Not able to work.
30	G. G.	50	26th Nov., 1912	10 st. 13¼ lbs.	28th Feb., 1913	11 st. 3 lbs.	Disease arrested	Not able to work
31	A. N.	27	2nd Dec., 1912	6 st. 10 lbs.	27th May, 1913	7 st. 9½ lbs.	Very much improved	Improvement not maintained. Attending Clinic.
32	J. T.	46	9th Dec., 1912	9 st. 1¼ lbs.	13th Dec., 1913	9 st. 7 lbs.	Improved, discharged at own request	Attending clinic—not fit for work.
33	A. G.	29	11th Dec., 1912	7 st. 12 lbs.	28th Feb., 1913	9 st. 1½ lbs.	Disease arrested	In full work.
34	G. H. W.	38	30th Dec., 1912	6 st. 10¾ lbs.	27th May, 1913	8 st. 2¼ lbs.	Much improved	Working part time. Attending Clinic.

Cases of Tuberculosis admitted to the Sanatorium since January 1st, 1912.—Continued.

No.	Patient.	Age.	Date of Admission.	Weight on Admission.	Date of Discharge.	Weight on Discharge.	Condition on Discharge.	Subsequent History as at January, 1914.
35	G. H. B.	54	17th Jan., 1913	9 st. 2 lbs.	30th April, 1913	9 st. 9¾ lbs.	General condition improved Lung condition unaltered	Died August 20th, 1913
36	E. H.	36	17th Jan., 1913	9 st. 4 lbs.	28th Feb., 1913	9 st. 13 lbs.	Disease arrested	In full work.
37	S. G. (Re-admitted)	25	30th Jan., 1913	8 st. 13½ lbs.	1st Feb., 1913	9 st. 8¾ lbs.	Disease arrested	Working.
38	C. R.	42	5th Mar., 1913	9 st. 1½ lbs.	7th June, 1913	9 st. 8¾ lbs.	Disease apparently arrested	Died November 10th, 1913.
39	W. L.	44	30th Jan., 1913	8 st. 6 lbs.	21st June, 1913	9 st. 5½ lbs.	Disease apparently arrested	Still in Hospital.
40	A. P.	30	8th Feb., 1913	10 st. 6 lbs.				Still in Hospital.
41	F. H.	33	3rd Mar., 1913	Impossible to weigh				
42	N. G.	19	4th Mar., 1913	10 st. 0½ lbs.	1st July, 1913	10 st. 10¾ lbs.	Disease apparently arrested.	Died October 4th, 1913.
43	E. J.	23	8th April, 1913	7 st. 6½ lbs.	19th July, 1913	8 st. 10½ lbs.	Disease apparently arrested	In full work.
44	H. C.	40	14th April, 1913	9 st. 9½ lbs.				Still in Hospital.
			28 April, 1913	11 st. 3¼ lbs.	3rd Oct., 1913	11 st. 10¾ lbs.	General condition improved Lung condition unaltered	Not fit for work—attends Clinic.
45	J. H.	43	2nd May, 1913	10 st. 7½ lbs.	30th Oct., 1913	11 st. 1¾ lbs.	Improved	Improvement maintained.
46	A. K.	17	12th May, 1913	7 st. 3 lbs.	6th Sept., 1913	6 st. 10½ lbs.	Discharged at own request	Not working. Able to go about.
47	G. B.	18	12th May, 1913	8 st. 12¾ lbs.	15th Aug., 1913	10 st. 0½ lbs.	Disease apparently improved	Working.
48	R. S.	41	13th May, 1913	6 st. 10 lbs.				Still in Hospital.
49	M. A. C.	39	13th May, 1913	9 st. 4¾ lbs.	12th Aug., 1913	10 st. 6¼ lbs.	Disease apparently arrested	Working.
50	J. B.	17	20th May, 1913	7 st. 5 lbs.	1st Dec., 1913	Unable to be weighed	Worse, discharged at own request	Condition unimproved.

Cases of Tuberculosis admitted to the Sanatorium since January 1st, 1912.—Continued.

No.	Patient.	Age.	Date of Admission.	Weight on Admission.	Date of Discharge.	Weight on Discharge.	Condition on Discharge.	Subsequent History as at January, 1914.
51	M. B.	19	20th May, 1913	Not weighed	23rd May, 1913	Not weighed	Unchanged	Not fit for work.
52	R. J.	40	21st May, 1913	7 st. 7 lbs.	30th Aug., 1913	6 st. 9 $\frac{3}{4}$ lbs.	Improved	Still in Hospital.
53	L. M.	18	21st May, 1913	6 st. 9 lbs.	23rd Aug., 1913	7 st. 11 $\frac{1}{4}$ lbs.	Discharged at own request	Not fit for work, improvement maintained.
54	M. T.	22	22nd May, 1913	7 st. 2 $\frac{1}{2}$ lbs.	30th Aug., 1913	7 st. 2 $\frac{3}{4}$ lbs.	Discharged at own request	Not working, condition unimproved.
55	B. E.	23	26th May, 1913	7 st. 0 $\frac{3}{4}$ lbs.	16th July, 1913	7 st. 5 $\frac{3}{4}$ lbs.	Discharged at own request, improved	Condition unimproved.
56	H. T.	40	26th May, 1913	5 st. 10 $\frac{1}{4}$ lbs.	2nd Sept., 1913	6 st. 12 lbs.	General condition improved	Still in Hospital.
57	E. B.	27	30th May, 1913	6 st. 7 $\frac{3}{4}$ lbs.			Lung condition unchanged	Working.
58	S. E.	33	31st May, 1913	6 st. 2 $\frac{3}{4}$ lbs.				Housewife—improvement maintained.
59	H. H.	16	31st May, 1913	8 st. 7 $\frac{1}{4}$ lbs.	5th Sept., 1913	10 st. 1 $\frac{1}{2}$ lbs.	Much improved	Still in Hospital.
60	H. A.	47	31st May, 1913	8 st. 8 lbs.	4th Sept., 1913	4 st. 12 $\frac{1}{2}$ lbs.	Disease apparently arrested	Working—attends dispensary.
61	N. B.	10	5th June, 1913	4 st. 3 $\frac{1}{2}$ lbs.	6th Sept., 1913	10 st. 4 lbs.	Much improved	Attends school—condition satisfactory.
62	J. O.	37	13th June, 1913	9 st. 1 $\frac{1}{2}$ lbs.	12th Aug., 1913	9 st. 13 $\frac{1}{2}$ lbs.	Disease apparently arrested	Working—attends dispensary.
63	G. E.	18	13th June, 1913	8 st. 13 lbs.	1st Oct., 1913	9 st. 7 $\frac{1}{4}$ lbs.	Disease apparently arrested	Working.
64	F. H.	36	13th June, 1913	8 st. 10 $\frac{1}{4}$ lbs.				Working—attends Clinic.
65	B. T.	34	13th June, 1913	9 st. 10 lbs.				Still in Hospital.
66	K. T.	41	13th June, 1913	6 st. 1 $\frac{1}{4}$ lbs.				Still in Hospital.
67	H. S.	43	16th June, 1913	9 st. 6 lbs.	15th Sept., 1913	11 st. 2 lbs.	Improved	Working—attends Clinic.
68	J. J.	31	16th June, 1913	10 st. 1 $\frac{3}{4}$ lbs.	2nd Sept., 1913	11 st. 0 $\frac{1}{2}$ lbs.	Disease apparently arrested	Working.
69	W. E.	36	17th June, 1913	9 st. 6 lbs.				Still in Hospital.
70	J. F.	26	17th June, 1913	8 st. 10 $\frac{1}{2}$ lbs.				Died in Hospital, August 21st, 1913.

Cases of Tuberculosis admitted to the Sanatorium since January 1st, 1912.—Continued.

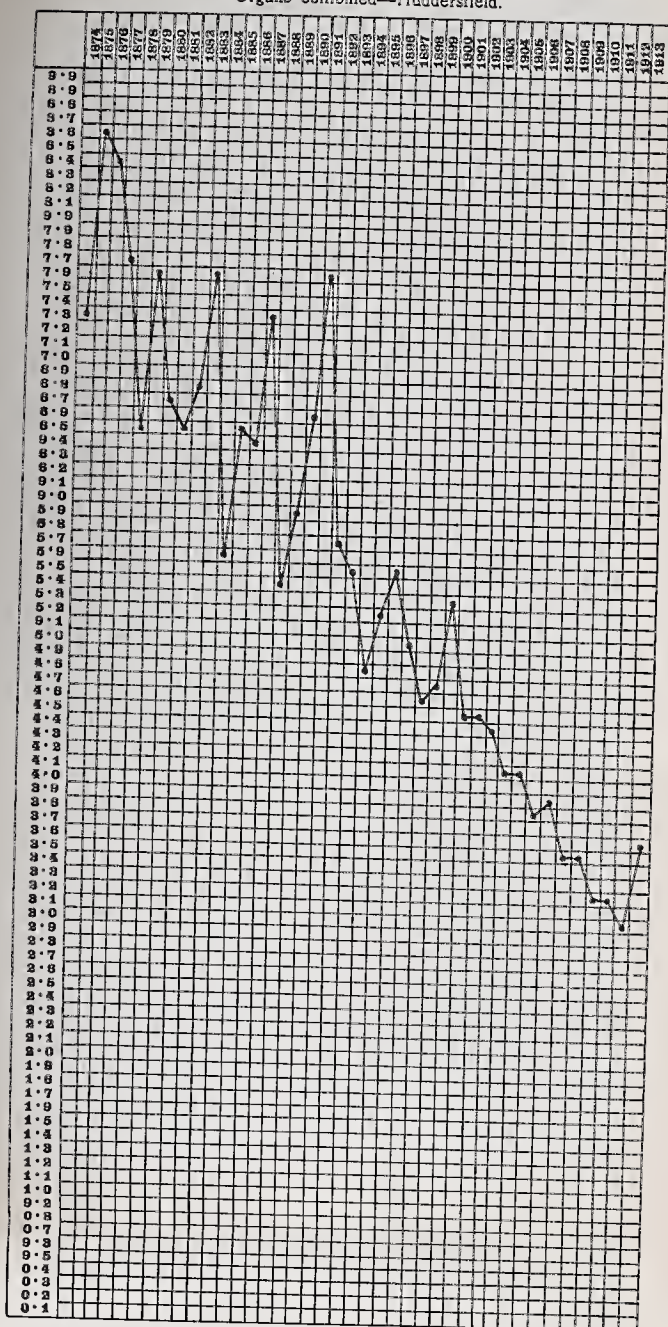
No.	Patient.	Age.	Date of Admission.	Weight on Admission.	Date of Discharge.	Weight on Discharge.	Condition on Discharge.	Subsequent History as at January, 1914.
71	G. H.	44	17th June, 1913	8 st. 9½ lbs.			Left without per- mission	Still in Hospital. Unimproved.
72	P. C.	40	18th June, 1913	9 st. 11½ lbs.				
73	H. P.	40	23rd June, 1913	9 st. 5 lbs.	15th Sept., 1913	9 st. 11½ lbs.	Disease apparently arrested	Died in Hospital, August 26th, 1913. Working.
74	W. G.	26	26th June, 1913	8 st. 10½ lbs.			Disease apparently arrested	Working.
75	L. J.	37	26th June, 1913	6 st. 13½ lbs.	1st Oct., 1913	8 st. 3½ lbs.		
76	T. F.	40	7th July, 1913	9 st. 10 lbs.			Disease apparently arrested	Still in Hospital. Working.
77	J. T.	30	7th July, 1913	8 st. 4¼ lbs.	11th Nov., 1913	9 st. 12½ lbs.	Improved Disease apparently arrested	Working. Working.
78	R. G.	52	11th July, 1913	8 st. 13¾ lbs.	30th Aug., 1913	9 st. 7 lbs.		
79	J. L.	48	18th July, 1913	9 st. 1¼ lbs.	25th Oct., 1913	10 st. 8½ lbs.		
80	S. J.	37	18th July, 1913	5 st. 7 lbs.	13th Aug., 1913	5 st. 2¼ lbs.	Not improved	Not able to work.
81	W. S.	36	22nd July, 1913	7 st. 12 lbs.	11th Oct., 1913	9 st. 2¾ lbs.	Disease apparently arrested	Working.
82	H. C.	25	4th Aug., 1913	9 st. 9¾ lbs.	24th Oct., 1913	10 st. 4¼ lbs.	Disease apparently arrested	Working.
83	N. D.	18	13th Aug., 1913	7 st. 8 lbs.	29th Nov., 1913	8 st. 3¾ lbs.	Disease apparently arrested	Not fit for work.
84	G. R.	57	13th Aug., 1913	9 st. 9 lbs.			Left at own request Improved	Still in Hospital. Not working—attends Clinic. Working part time—Attends Clinic.
85	A. J.	27	15th Aug., 1913	7 st. 4½ lbs.	27th Aug., 1913	7 st. 4½ lbs.		
86	A. C.	25	18th Aug., 1913	6 st. 5¾ lbs.	11th Nov., 1913	7 st. 7½ lbs.		
87	J. M.	32	23rd Aug., 1913	9 st. 2 lbs.				Still in Hospital.
88	N. T.	23	26th Aug., 1913	6 st. 12 lbs.				Still in Hospital.
89	R. C.	28	28th Aug., 1913	8 st. 5¾ lbs.				Still in Hospital.
90	M. A.	23	29th Aug., 1913	7 st. 10½ lbs.				Still in Hospital.
91	A. M.	25	3rd Sept., 1913	7 st. 13¾ lbs.				Still in Hospital.

Cases of Tuberculosis admitted to the Sanatorium since January 1st, 1912.—*Continued.*

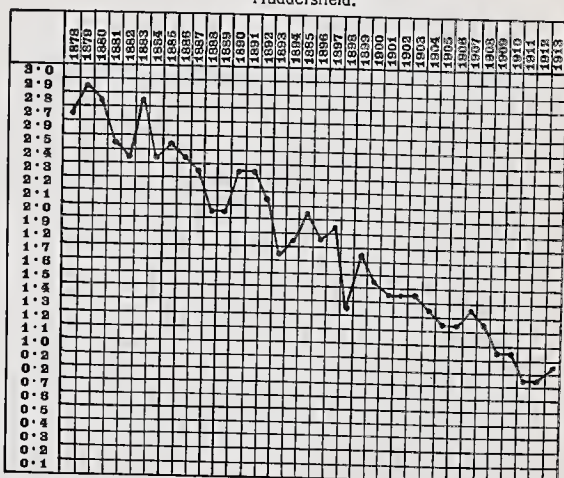
No.	Patient.	Age.	Date of Admission.	Weight on Admission.	Date of Discharge.	Weight on Discharge.	Condition on Discharge.	Subsequent History as at January, 1914.
92	M. C.	48	3rd Sept., 1913	9 st. 3½ lbs.	6th Nov., 1913	Unable to be weighed	Worse	Receiving home treatment.
93	F. A.	26	3rd Sept., 1913	9 st. 6 lbs.				Still in Hospital.
94	F. H.	15	4th Sept., 1913	8 st. 0¾ lbs.				Still in Hospital.
95	B. B.	28	8th Sept., 1913	6 st. 6½ lbs.	9th Sept., 1913	6 st. 6½ lbs.	At own request condition unaltered	Not working.
96	A. S.	22	8th Sept., 1913	5 st. 7¼ lbs.	21st Oct., 1913	5 st. 4½ lbs.	Worse	Died October 30th, 1913.
97	A. K.	32	10th Sept., 1913	9 st. 4½ lbs.	12th Dec., 1913	10 st. 9½ lbs.	Disease apparently arrested	Working.
98	J. V.	25	25th Sept., 1913	10 st. 0¾ lbs.	24th Oct., 1913	10 st. 10½ lbs.	Disease apparently arrested	Working.
99	M. M.	27	25th Sept., 1913	6 st. 8¼ lbs.				Still in Hospital.
100	L. H.	22	8th Oct., 1913	8 st. 7½ lbs.				Still in Hospital.
101	F. N.	20	21st Oct., 1913	6 st. 2 lbs.				Still in Hospital.
102	A. L.	48	23rd Oct., 1913	8 st. 10 lbs.				Still in Hospital.
103	G. R.	21	24th Oct., 1913	10 st. 6½ lbs.				Still in Hospital.
104	F. B.	24	24th Oct., 1913	8 st. 11½ lbs.				Still in Hospital.
105	A. A.	39	1st Nov., 1913	7 st. 10 lbs.				Still in Hospital.
106	H. F.	21	3rd Nov., 1913	8 st. 7¼ lbs.				Still in Hospital.
107	B. S.	26	3rd Nov., 1913	8 st. 3 lbs.				Still in Hospital.
108	J. McC.	28	11th Nov., 1913	9 st. 9¼ lbs.				Still in Hospital.
109	P. R.	28	12th Nov., 1913	8 st. 11 lbs.				Still in Hospital.
110	P. B.	43	15th Nov., 1913	7 st. 8½ lbs.				Still in Hospital.
111	F. A.	45	1st Dec., 1913	8 st. 11 lbs.				Still in Hospital.
112	M. B.	21	2nd Dec., 1913	6 st. 12 lbs.				Still in Hospital.
113	J. O.	35	4th Dec., 1913	8 st. 10¾ lbs.				Still in Hospital.
114	S. C.	31	5th Dec., 1913	6 st.	9th Dec., 1913	6 st.	Left own request, against advice	Condition unchanged.
115	M. A. H.	36	12th Dec., 1913	7 st. 3½ lbs.				Still in Hospital.
116	J. M. C.	23	17th Dec., 1913	7 st. 5 lbs.				Still in Hospital.
117	A. H.	37	31st Dec., 1913	7 st. 4¼ lbs.				Still in Hospital.

DIAGRAM No. 9.

Death Rates from Consumption and Diseases of Respiratory
Organs combined—Huddersfield.



Death Rates due to Consumption only—
Huddersfield.



SUMMARY OF CASES OF TUBERCULOSIS THAT HAVE PASSED THROUGH THE SANATORIUM
SINCE JANUARY, 1912.

Number admitted.	Number discharged.	Number died in Hospital.	Number died after discharge from Hospital.	Number still in Hospital (January, 1914)	Number Working.	Working but have had relapse.	Not Working.
122*	78	5	15	39	35	2	21

* Including re-admissions.

The following statement shows the number of cases of Tuberculosis coming under the notice of the Department during the year and the number admitted to the Phthisis Pavilions at the Sanatorium.

	No. of Notifications.		Admitted to Phthisis Pavilions.
Pulmonary Tuberculosis	245	..	87*
Other forms	111	..	1
	<hr/>		<hr/>
	356	..	88

* Includes four re-admissions.

Among the 141 deaths from all forms of Tuberculosis it was found that in 56 families deaths from the disease had previously occurred, thus :—

- In 37 families, 1 death had previously occurred.
- In 16 families 2 deaths ,, ,,
- In 3 families 3 deaths ,, ,,

- In the first quarter of the year there were 45 deaths.
- In the second quarter there were 32 deaths.
- In the third quarter there were 33 deaths.
- In the fourth quarter there were 31 deaths.

The following tabular statement shows the number of deaths which occurred from Tuberculosis in houses containing 1, 2, 3, 4, 5, and over 5 rooms, and also the number of deaths which occurred in the Workhouses and Asylums, the Royal Infirmary, and the Phthisis Pavilion :—

- 2 deaths occurred in 1 roomed houses.
- 18 ,, ,, 2 ,, ,,
- 33 ,, ,, 3 ,, ,,
- 19 ,, ,, 4 ,, ,,
- 20 ,, ,, 5 ,, ,,
- 13 ,, ,, houses with over 5 rooms.
- 24 ,, ,, Workhouses and Asylums.
- 4 ,, ,, the Royal Infirmary.
- 4 ,, ,, Phthisis Pavilions at the Sanatorium.
- 5 deaths occurred outside the Borough (Transferable Deaths).

OCCUPATIONS OF PERSONS DYING FROM TUBERCULAR DISEASE.

				Males.	Females.	Totals.
Millhands	..	..	..	12	17	29
Children at home	..	..	..	9	10	19
Domestic occupations	..	..		—	16	16
Children at School	..	..	..	1	8	9
Labourers	..	..	..	8	—	8
Engineers and Mechanics	..	..		5	—	5
Tailors and Tailoresses	..	..		3	1	4
Gas Stokers and Firers	..	..		3	—	3
Shop Assistants	..	..	..	1	2	3
Teamers	..	..	..	2	—	2
Printer and Assistant	..	..		1	1	2
Farmer and Farm Labourer			..	2	—	2
Bookeepers	..	..	..	2	—	2
Barman and Brewers' Bottler			..	2	—	2
Musician	..	..	..	1	—	1
Shoemaker	..	..	..	1	—	1
Furniture Dealer	..	..	..	1	—	1
Collier	..	..	..	1	—	1
Drycleaner	..	..	..	—	1	1
Laundress	..	..	..	—	1	1
Grocers' Warehouseman			..	1	—	1
Crane Driver	..	..	..	1	—	1
Gardener	..	..	..	1	—	1
No Occupation and occupation not stated	..	..	..	15	11	26
				—	—	—
				73	68	141

STATEMENT SHOWING NUMBER OF DEATHS AND
DEATH RATES SINCE 1902 FROM PHTHISIS AND
OTHER FORMS OF TUBERCULOSIS.

	Deaths from Phthisis.			Death Rate.	Deaths from other forms of Tuberculosis.			Death Rate.
1902	..	133	..	1.36	..	31	..	0.32
1903	..	136	..	1.40	..	40	..	0.41
1904	..	126	..	1.28	..	34	..	0.34
1905	..	120	..	1.20	..	46	..	0.46
1906	..	119	..	1.18	..	38	..	0.38
1907	..	136	..	1.33	..	40	..	0.39
1908	..	127	..	1.20	..	52	..	0.49
1909	..	102	..	0.97	..	43	..	0.41
1910	..	111	..	1.04	..	42	..	0.39
1911	..	92	..	0.85	..	40	..	0.37
1912	..	90	..	0.82	..	40	..	0.37
1913	..	100	..	0.89	..	41	..	0.36

MEASLES AND GERMAN MEASLES.

Twenty-five deaths took place from this disease. Nine deaths occurred in the first quarter of the year, eight in the second quarter, and eight in the third quarter. The death rate was 0.22, as against 0.19 the previous year, and 0.27 the mean for the ten years ending 1912.

WHOOPING COUGH.

This disease accounted for eight deaths in children, five being under one year of age and three between one and two years of age. The rate was 0.07 per 1,000, as against 0.24 for 1912, 0.10 for 1911, and 0.20 the mean for the years 1903–1912.

INFLUENZA.

During the year 11 deaths occurred from influenza, being three more than the number last year, and equal to the number for 1911.

In the first quarter of the year no deaths occurred.

In the second quarter of the year 5 deaths occurred.

In the third quarter of the year 1 death occurred.

In the fourth quarter of the year 5 deaths occurred.

The ages at death were as follows :—One between 5 and 15 years, two between 15 and 25 years, five between 25 and 45 years, two between 45 and 65 years, and one over 65 years of age.

SEPTIC DISEASES.

The number of deaths from these causes reached the same number as obtained in 1912, namely, 13.

The following tabular statement shows how the various Septic Diseases contributed to the total year by year since 1909 :—

			1909	1910	1911	1912	1913
Phagedena	..	..	0	0	0	1	0
Erysipelas	..	..	1	5	2	0	2
Puerperal Fever	..	..	4	3	1	1	3
Pyæmia Septicæmia	..		8	7	6	7	4
Other Septic Diseases	..		4	1	1	4	4
			<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
			17	16	10	13	13

CEREBRO-SPINAL FEVER.

Two cases of this disease were notified during the year. Both died. The particulars of each case are as follows :—

No. 1.—Male, age 14, died at home April 6th. The entry of death occurred in the death returns prior to the receipt of the notification. It was therefore impossible for measures to be taken in respect of treatment and isolation in hospital.

No. 2.—Female, age 14, notified December 31st, died January 6th, 1914. The case was removed for treatment to the Huddersfield Royal Infirmary. Lumbar puncture was done and the spinal fluid examined.—Clear fluid without any lymph flakes, and no micro-organism of any kind was discovered, no definite cause for the meningitis was made out.

OPHTHALMIA NEONATORUM.

Nineteen notifications from this disease were received during the year. Eighteen under one year of age, and one aged in the one to five years age period. Twelve occurred in the Huddersfield Township (including the districts Central, Marsh, Fartown, Deighton and Bradley), one in Dalton, one in Almondbury, and five in Lockwood.

OTHER NOTIFIABLE DISEASES.

The Borough was free from Plague, Cholera, Typhus Fever, Relapsing Fever, and Small Pox during 1913.

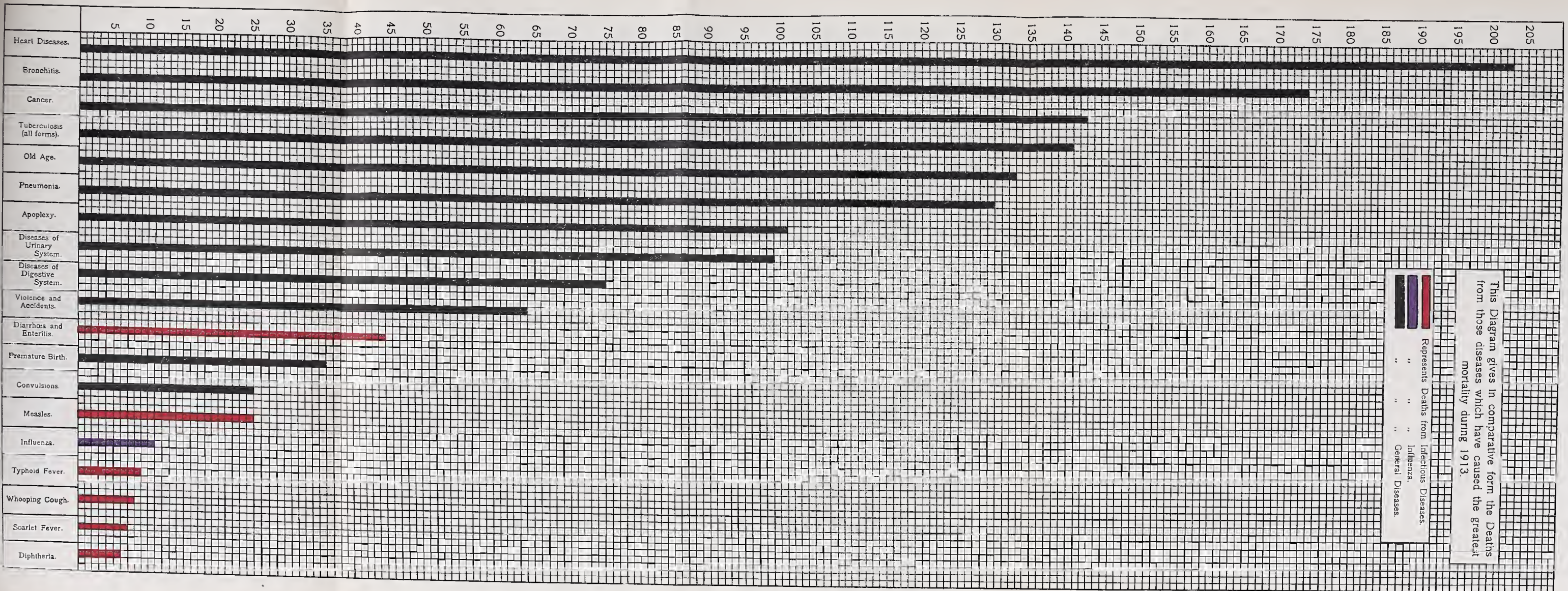
Table showing the number of cases of Infectious Diseases notified and deaths therefrom in the whole of the Borough during the period 1883-1913.

YEAR.	Estimated Population.	Small-pox Cases.	Deaths.	Scarlet Fever Cases.	Deaths.	Diphtheria Cases.	Deaths.	Typhus Fever Cases.	Deaths.	Enteric Fever Cases.	Deaths.
1883	84450	1	..	91	7	8	3	..	..	41	13
1884	86004	..	..	123	7	8	4	..	..	87	12
1885	87327	3	..	251	11	4	4	..	..	66	10
1886	88670	39	..	369	33	29	12	..	..	45	12
1887	90034	..	..	526	31	83	41	..	..	48	9
1888	91419	15	2	326	26	40	14	..	..	56	12
1889	92825	..	..	354	26	40	12	..	..	50	10
1890	94253	5	1	204	7	21	5	1	..	62	24
1891	95410	..	..	341	30	19	5	..	..	38	15
1892	95373	16	1	354	18	21	7	..	..	22	6
1893	95336	48	2	579	25	13	3	..	..	57	13
1894	95299	5	..	462	23	36	27	1	..	31	11
1895	95261	..	..	539	20	34	19	..	..	60	6
1896	95224	1	..	456	19	43	26	..	..	70	13
1897	95187	..	..	658	33	56	21	1	..	64	16
1898	95149	2	..	344	10	46	14	..	..	77	10
1899	95112	..	..	333	7	26	5	..	..	69	24
1900	95074	..	..	294	19	14	2	..	..	53	20
1901	95351	..	..	198	6	24	6	..	..	85	18
1902	96573	13	1	270	11	37	15	..	..	26	5
1903	97808	53	2	244	15	79	14	..	..	37	7
1904	99056	39	1	485	10	60	14	..	..	61	7
1905	100317	2	..	488	11	45	11	..	..	72	17
1906	101591	..	..	322	7	64	13	..	..	75	9
1907	102877	..	..	145	6	70	8	..	..	31	11
1908	104178	..	..	88	3	93	8	..	..	26	9
1909	105492	..	..	337	9	162	20	..	..	45	11
1910	106820	..	..	937	18	77	15	..	..	25	5
1911	108144	..	..	540	16	134	22	..	..	48	8
1912	109512	1	..	706	22	106	9	..	..	14	2
1913	110882	..	..	288	7	62	6	..	..	20	9

Table showing the number of cases of Diphtheria, Scarlet and Typhoid Fevers reported, treated at Home or in Hospital, with the respective case mortality during the years 1893-1913.

Year.	Disease.		Total.	Home Cases.	Sanatorium Cases.	Case Mortality per cent.	
						Home.	Sanatorium.
1893	Scarlet Fever	..	579	70	509	11.4	3.3
1894	"	..	462	65	397	10.8	4.0
1895	"	..	539	54	485	20.4	1.9
1896	"	..	456	50	406	14.0	2.7
1897	"	..	658	50	608	24.0	3.3
1898	"	..	344	30	314	13.3	1.9
1899	"	..	333	15	318	13.3	1.6
1900	"	..	294	26	268	11.5	5.6
1901	"	..	198	15	183	0	3.3
1902	"	..	270	20	250	5.0	4.0
1903	"	..	244	14	230	0	6.5
1904	"	..	485	28	457	3.6	1.9
1905	"	..	488	27	461	11.1	1.7
1906	"	..	322	35	287	0	2.4
1907	"	..	145	15	130	6.7	3.8
1908	"	..	88	12	76	0	3.9
1909	"	..	337	26	311	7.7	2.2
1910	"	..	937	30	907	10.0	1.6
1911	"	..	540	19	521	5.3	2.9
1912	"	..	706	22	684	13.6	2.8
1913	"	..	288	7	281	0	2.5
1893	Typhoid Fever	..	57	47	10	21.3	10.0
1894	"	..	31	26	5	38.5	20.0
1895	"	..	60	49	11	10.2	9.1
1896	"	..	70	52	18	23.1	5.6
1897	"	..	64	40	24	25.0	25.0
1898	"	..	77	30	47	20.0	8.5
1899	"	..	69	21	48	52.4	22.9
1900	"	..	53	20	33	50.0	27.3
1901	"	..	85	23	62	30.4	17.7
1902	"	..	26	9	17	44.4	5.9
1903	"	..	37	9	28	22.2	17.9
1904	"	..	61	10	51	10.0	11.8
1905	"	..	72	16	56	50.0	16.1
1906	"	..	75	7	68	42.9	8.8
1907	"	..	31	13	18	38.5	33.3
1908	"	..	26	10	16	60.0	18.7
1909	"	..	45	7	38	42.9	21.1
1910	"	..	25	2	23	0	21.7
1911	"	..	48	8	40	50.0	10.0
1912	"	..	14	2	12	0	16.7
1913	"	..	20	4	16	25.0	43.8
1900	Diphtheria	..	14	7	7	28.6	0
1901	"	..	24	17	7	23.5	28.6
1902	"	..	37	22	15	54.5	20.0
1903	"	..	79	13	66	53.8	10.6
1904	"	..	60	30	30	30.0	16.7
1905	"	..	45	41	4	26.8	0
1906	"	..	64	39	25	25.6	12.0
1907	"	..	70	17	53	17.6	9.4
1908	"	..	93	23	70	13.0	7.1
1909	"	..	162	31	131	19.4	10.7
1910	"	..	77	15	62	40.0	14.5
1911	"	..	134	25	109	48.0	9.2
1912	"	..	106	10	96	10.0	8.3
1913	"	..	62	7	55	28.6	10.9

DIAGRAM No. 10.



STREET LIST.

Arranged under the heading of each infectious disease.

Deaths which occurred in public institutions, or of residents occurring outside the Borough, are allocated to the districts in which the cases were formerly residents.

PLACE OF DEATH.	DISTRICT.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Enteric.	Diarrhœa.
1. Back Union Street	Hudd. Township ..	..	..	..	..	..	..	1
2. Back Union Street .. ..	" "	..	..	..	..	..	..	1
3. Back Violet Street	" "	..	1	..	..	..	..	..
4. Blacker Road .. ..	" "	..	..	..	..	..	..	1
5. Bradford Road .. ..	" "	..	..	..	..	..	..	1
6. Bradford Road North .. ..	" "	..	..	..	1	..	..	..
7. Castlegate .. ..	" "	..	..	..	..	..	..	1
8. Chapel Hill .. ..	" "	..	..	..	..	..	..	1
9. Church Street, Paddock .. ..	" "	..	..	..	..	..	..	1
10. Colne Road, Robert's Yard	" "	..	1	..	..	..	..	..
11. Croft Cottage Lane	" "	..	1	..	..	..	..	..
12. Cross Grove Street .. ..	" "	..	..	..	..	1	..	..
13. Denton Lane, Spivey's Yard	" "	..	1	..	..	..	..	..
14. Fitzwilliam Street .. ..	" "	..	..	..	..	..	..	1
15. Fitzwilliam Street	" "	..	1	..	..	..	..	..
16. Hillhouse Lane .. ..	" "	..	..	..	..	..	..	1
17. Hillhouse Lane .. ..	" "	..	..	..	..	1	..	..
18. Hillhouse Lane .. ..	" "	..	..	..	..	..	..	1
19. Hill Top Road, Paddock .. ..	" "	..	..	..	..	..	..	1
20. Kirkgate	" "	..	1	..	..	..	..	..
21. Kirkgate, Old Post Office Yard .. ..	" "	..	..	..	..	..	..	1
22. Leeds Road, Learoyd's Yard	" "	..	1	..	..	..	..	..
23. Leeds Road North	" "	..	1	..	..	..	..	..
24. Longroyd Lane .. ..	" "	..	..	..	..	..	..	1
25. Lowerhead Row	" "	..	1	..	..	..	..	..
26. Manchester Street .. ..	" "	..	..	..	..	1	..	..
27. Mitre Street, Marsh .. ..	" "	..	..	..	..	1	..	..
28. Northgate	" "	..	1	..	..	..	..	..
29. Northgate	" "	..	1	..	..	..	..	..
30. Northumberland Street .. ..	" "	..	..	..	..	..	..	1
31. Northumberland Street .. ..	" "	..	..	..	..	..	..	1
32. Prospect Street .. ..	" "	..	..	..	..	..	..	1
33. Queen Street, Paddock .. ..	" "	..	..	..	..	1	..	..
34. Roydfield Street	" "	..	1	..	..	..	..	..
35. South Street	" "	..	1	..	..	..	..	..
36. South Street, South Terrace .. ..	" "	..	..	..	..	..	..	1
37. Thomas Street	" "	..	1	..	..	..	..	..
38. Upper Brow Road, Paddock .. ..	" "	..	..	..	..	..	..	1
39. Upper Brow Road, Paddock .. ..	" "	..	..	..	..	..	..	1
40. Upper Brow Road, Paddock .. ..	" "	..	..	..	..	..	..	1

STREET LIST.—Continued.

PLACE OF DEATH.				DISTRICT.		Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Enteric.	Diarrhea.
41.	Violet Street	..	..	..	Hudd. Township..	..	1	..	..	..	..	..
42.	Watergate ..	..	..	..	” ”	..	1	..	..	..	..	..
43.	West Parade	..	..	..	” ”	..	..	..	..	..	..	1
44.	Sanatorium	..	..	..	” ”	..	..	1	..	..	..	..
45.	Sanatorium	..	..	..	” ”	..	..	1	..	..	..	..
46.	Sanatorium	..	..	..	” ”	..	..	1	..	..	..	..
47.	Sanatorium	..	..	..	” ”	..	..	1	..	..	..	..
48.	Sanatorium	..	..	..	” ”	..	..	..	..	..	1	..
49.	Sanatorium	..	..	..	” ”	..	..	..	1	..	..	..
50.	Sanatorium	..	..	..	” ”	..	..	..	..	..	1	..
51.	Sanatorium	..	..	..	” ”	..	..	..	..	..	..	1
52.	Sanatorium	..	..	..	” ”	..	..	..	..	..	..	1
53.	Sanatorium	..	..	..	” ”	..	..	..	..	..	..	1
54.	Sanatorium	..	..	..	” ”	..	..	..	..	..	1	..
55.	Sanatorium	..	..	..	” ”	..	..	..	..	..	1	..
1.	Batley Street	..	..	..	Dalton ..	..	1	..	..	..	..	..
2.	Bradley Mills	..	..	..	” ..	..	1	..	..	..	..	..
3.	Dalton Fold Road	..	..	..	” ..	..	1	..	..	..	..	..
4.	Kilner Bank	..	..	..	” ..	..	1	..	..	..	..	..
5.	Long Lane ..	..	..	..	” ..	..	..	..	..	1	..	..
6.	Somerset Yard	..	..	..	” ..	..	..	..	..	..	..	1
7.	Deanhouse Workhouse	..	..	..	” ..	..	..	..	..	..	1	..
8.	Sanatorium	..	..	..	” ..	..	..	..	1	..	..	..
1.	Lockwood Scar	..	..	..	Almondbury	..	1	..	..	..	..	..
2.	Lockwood Scar, Megson's Fold	..	..	..	”	..	1	..	..	..	..	..
3.	Taylor Hill, Vickerman's Square	..	..	..	”	..	1	..	..	..	..	..
4.	Somerset Place	..	..	..	”	..	..	..	1	..	..	..
5.	Sanatorium	..	..	..	”	..	..	1	..	..	..	..
6.	Sanatorium	..	..	..	”	..	..	1	..	..	..	..
7.	Sanatorium	..	..	..	”	..	..	..	..	..	..	1
8.	Sanatorium	..	..	..	”	..	..	..	..	..	..	1
9.	Sanatorium	..	..	..	”	..	..	1	..	..	..	..
1.	Chapel Terrace	..	..	..	Lockwood	..	..	..	..	..	..	1
2.	Lockwood Road	..	..	..	”	..	..	..	..	..	..	1
3.	Lockwood Road	..	..	..	”	..	..	..	..	..	..	1
4.	Marsden Road	..	..	..	”	..	..	..	..	..	..	1
5.	Rashcliffe ..	..	..	..	”	..	..	..	..	..	..	1
6.	Swan Lane ..	..	..	..	”	..	..	..	..	..	..	1
7.	Swan Lane, Blamires' Yard	..	..	..	”	..	..	..	..	1	..	..
8.	Victoria Street	..	..	..	”	..	..	..	..	..	..	1
9.	Sanatorium	..	..	..	”	..	..	..	..	..	1	..

STREET LIST.—Continued.

PLACE OF DEATH.				DISTRICT.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Enteric.	Diarrhoea.
10. Sanatorium				Lockwood	..	..	..	..	..	..	1
11. Sanatorium .. .. .				"	..	..	..	1	..	..	..
12. Sanatorium .. .. .				"	..	..	..	..	..	..	1
13. Sanatorium .. .. .				"	..	..	..	..	..	1	..
14. Sanatorium .. .. .				"	..	..	..	..	..	1	..
15. Workhouse .. .. .				"	..	..	..	..	..	..	1
<hr/>											
1. Lidget Street				Lindley ..	..	..	1	..	..	..	..
2. Quarmbly Rocks .. .. .				" ..	..	..	..	..	1	..	..
3. Sanatorium .. .. .				" ..	..	..	1	..	..	..	..
4. Sanatorium .. .. .				" ..	..	..	..	1	..	..	..
<hr/>											
1. Slack, Outlane .. .. .				.. ..	..	..	..	..	..	1	..

CANCER AND MALIGNANT DISEASES.

These diseases have caused 130 deaths, as will be seen from the subjoined table, which shows the number of deaths and death rates since 1881.

Mortality from Cancer and Malignant Diseases.

Year.	Population.	Number of Deaths from Cancer.	Death rate per 1,000 of the Population.
1881	82,113	26	0.32
1882	83,271	32	0.51
1883	84,450	48	0.57
1884	86,004	57	0.67
1885	87,327	54	0.62
1886	88,670	50	0.57
1887	90,034	57	0.63
1888	91,419	70	0.77
1889	92,825	58	0.62
1890	94,253	75	0.79
1891	95,410	78	0.82
1892	95,373	75	0.79
1893	95,336	80	0.84
1894	95,299	82	0.86
1895	95,261	95	1.00
1896	95,224	88	0.91
1897	95,187	94	0.99
1898	95,149	80	0.84
1899	95,112	70	0.74
1900	95,074	95	1.00
1901	95,351	107	1.13
1902	96,573	93	0.95
1903	97,808	89	0.91
1904	99,056	97	0.98
1905	100,317	94	0.94
1906	101,591	108	1.07
1907	102,877	96	0.94
1908	104,178	109	1.03
1909	105,492	112	1.06
1910	106,820	150	1.41
1911	108,144	129	1.20
1912	109,512	130	1.19
1913	110,882	143	1.27

DIETIC DISEASES.

The above diseases caused seven deaths during the year, all due to alcoholism in one form or another. During 1912, three deaths occurred, each of these was due to alcoholism.

CONSTITUTIONAL DISEASES.

The deaths caused by the above class of diseases numbered 173, being 10.4 per cent. of the total deaths. The death rate was 1.54, and 1.40 for 1912. Of these 173 deaths, Cancer accounted for 143, or a 83 per cent. The rate being 1.27 per 1,000.

DEVELOPMENTAL DISEASES.

The deaths from these causes are set out hereunder :—

Old Age	..	..	..	..	..	133
Premature Birth	..	..	..	..	..	35
Atrophy, Debility, and Marasmus	..	..	..	..	..	18
Atelectasis	..	..	..	..	..	9
Congenital Defects	..	..	..	..	..	9
Debility at Birth	..	..	..	..	..	4
Injury at Birth	..	..	..	..	..	3
Rickets	..	..	..	..	..	3
Dentition	..	..	..	..	..	2
						<hr/> 216

BACTERIOLOGICAL LABORATORY.

The Laboratory at the Sanatorium, Mill Hill, has, as formerly, been of great service both in the Preventive and in the Clinical work of the Department.

During 1913 the character of the work has altered considerably, this being occasioned by the small incidence of Infectious Disease during the year and by the greatly increased work in connection with Tuberculosis, made possible by the National Health Insurance Acts.

A tabulation showing the variation between the work of 1912 and 1913 follows :—

1912.		1913.
226	“ swabs ” for presence of Diphtheria Bacilli	96
60	“ sputums ” for presence of Tubercle Bacilli	175
20	“ bloods ” for Widal’s reaction for diagnosis of Typhoid Fever	18
—	“ urine ” for presence of gonococci	1
—	“ pus ” from case of purulent Ophthalmia	1
<hr/> 306	Total	<hr/> 291

The results of these Bacterioscopic Examinations were tested clinically wherever practicable.

Annual Number of Specimens Examined.

Year.	Specimens.
1909	232
1910	200
1911	285
1912	306
1913	291

HOSPITALS.

The following statements are worthy of consideration, as they reveal clearly the worth of the Sanatorium to the inhabitants of the Borough. They set forth the details with respect to Scarlet Fever, Diphtheria, and Typhoid Fever, since the date, April, 1899, when the Sanatorium was opened for the reception of patients to the end of the present year, namely, January 3rd, 1914.

SCARLET FEVER.

The cases notified numbered 5,596, of these 5,291 were treated in hospital, leaving 305 treated at home. Out of the hospital treated cases 144 died, showing a case mortality of 2.7, and out of the home treated cases 20 died, showing a case mortality of 6.5 per cent.

One out of every 15 patients treated at home died, but practically 37 cases were treated in the Sanatorium for each death. The death rate in home treated cases is 141 per cent, greater than in hospital treated cases.

DIPHTHERIA.

The cases notified numbered 1,005, of these 691 were treated in hospital, leaving 314 treated at home. Out of the hospital treated cases 75 died, showing a case mortality of 10.9 per cent., and out of those treated at home 91 died, showing a case mortality of 28.9 per cent.

Two out of every seven patients treated at home died, but as regards hospital treated cases only two out of 19 patients died, that is to say the death rate in home treated cases is 165 per cent. greater than in hospital treated cases.

TYPHOID FEVER.

The cases notified numbered 677, and of that number 518 were treated in hospital, leaving 159 to be treated at home. Of the number treated in the Sanatorium 90 died, showing a case mortality of 17.4 per cent., and of those treated at home 65 died, showing a case mortality of 40.9 per cent.

Two out of every five patients treated at home died, but only two out of every eleven patients treated in the Sanatorium died, that is to say, the death rate in home treated cases is 131 per cent. greater than in hospital treated cases.

The foregoing facts are tabulated hereunder :—

Disease.	Cases Notified.	Removed to Hospital.	Cases treated at home.	Mortality per cent. in Hospital.	Mortality per cent. at home.
Scarlet Fever	5596	5291	305	2.7	6.5
Diphtheria ..	1005	691	314	10.9	28.9
Typhoid Fever	677	518	159	17.4	40.9

In Table B of the Appendix will be found full details of the cases admitted to the Sanatorium. On the following page is contained the Hospital Table, showing the cases in the Sanatorium at the commencement of the year, the cases since admitted and discharged, the number of deaths, and the number remaining under treatment at the end of the year.

The following is the Report of Patients in the Hospital for 53 Weeks ended

Saturday, 3rd January, 1914.

	Small Pox.	Scarlet Fever.	Diphtheria.	Enteric, or Typhoid Fever.	Tuberculosis	Other or Doubtful Cases.	Total.
Number in hospital on Saturday, 28th December, 1912	77	7	1	9	..	94
Number since admitted	281	55	16	88*	16||	456
Number Discharged	333	50	6	55	6	450
Number Died	8†	6‡	7	3	9§	33
Number remaining in hospital	17	6	4	39	1	67

53

* Includes four re-admissions.

† One of these deaths resulted from pyaemia.

‡ Of these deaths one resulted from measles and one from pneumonia.

§ Includes a case from enteritis, dying from tubercular peritonitis.

|| One measles and 15 summer diarrhoea.

HUDDERSFIELD UNION—VACCINATION RETURNS

Registration Sub-Districts in County Borough comprised in the Vaccination Officer's District.	Number of Births returned in the "Birth List Sheets."	Number of these Births duly entered in columns 1, 2, 4, and 5 of the "Vaccination Register" (Birth List Sheets), viz:—					Number of these Births remaining unentered in the "Vaccination Register," on account of			Number of these Births neither duly entered in the "Vaccination Register" (columns 3, 4, 5, and 6 of this Return), nor temporarily accounted for in the Report Book (columns 8, 9, and 10 of this Return).	
		Col. 1. Successfully Vaccinated.	Col. 2.		Col. 4. in Number of whom Certificates of Conscientious Objection have been received.	Col. 5. Dead Unvaccinated.	Postpone-ment by Medical Certificate.	Removal to districts the Vaccination Officer of which has been duly appraised.	Removal to places unknown, or which cannot be reached, and Cases not having been found.		
			Insuscept-ible of Vaccination.	Had Small Pox.							
Huddersfield Almondbury Lockwood .. Total ..	545	148	1	..	311	32	24	1	13	15	
	223	53	..	..	145	10	4	..	5	6
	340	66	1	..	238	17	2	1	9	6	
	1108	267	2	..	694	59	30	2	27	27	
Huddersfield Almondbury Lockwood .. Total ..	508	150	..	..	271	39	21	1	14	12
	225	53	..	..	136	14	4	..	1	17
	327	71	1	..	220	13	7	1	4	10	
	1060	274	1	..	627	66	32	2	19	39	
Jan. to June, 1913.											
July to Dec., 1912.											

The following figures relating to the meat trade have been kindly supplied by
Mr. Harris, the Markets Inspector.

Abattoir.	1913	1912	1911	1910	1909	1908	1907	1906	1905	1904	1903	1902	1901	1900	1899	1898	1897	1896
Carcases brought in	1258	3799	1520	1822	1971	1960	2606	2853	2944	4252	3523	3687	3362	3494	3534	2916	2987	1901
Beasts slaughtered ..	5971	4224	4758	4327	3670	3471	3105	2962	2911	2933	2819	3528	3505	3772	3813	3880	3412	3445
Calves ..	2617	2969	3161	3213	3124	2739	2684	2678	2477	2449	2409	2695	2980	3217	2493	2124	2031	1990
Sheep ..	21215	17551	20247	20201	19766	15809	14554	15417	14886	12275	12769	12944	12799	12443	12902	13102	12801	12846
Pigs ..	6891	7973	7878	6983	7820	7959	7506	6546	6423	6772	6942	6396	5706	6333	6829	5682	6579	6908
Private Slaughter Houses.																		
Beasts slaughtered ..	869	738	700	831	786	599	650	570	654	638	647	843	717	805	757	833	870	743
Calves ..	252	302	354	352	406	337	456	438	404	373	422	562	434	479	628	597	474	354
Sheep ..	1798	1624	2095	2217	2260	1479	1781	1523	1734	1748	1894	1997	1594	1976	2647	2387	2640	2211
Pigs ..	2314	2509	2258	2294	1921	1932	1953	1838	2010	2256	1837	1842	1531	1602	1688	1522	1306	1123
Total ..	43185	41689	42971	42240	41724	36285	35295	34825	34443	33696	33262	34494	32628	34121	35291	33043	33100	31521

Abstract of Monthly Meteorological Observations for the Year 1913.

1913. MONTH.	Barometer, corresponding to sea level. inches.	Temperature, Degrees F.					Wind, Maximum miles per hour.	Sunshine, hours (Total).	Rainfall, inches (Total).	Moisture of air, 100= saturation	Mean tempera- ture in air.	Mean tempera- ture at 1ft. 0in. in ground	Mean tempera- ture at 4ft. 0in. in ground	Total sunshine, per cent. of possible.	Total horizont'l move- ment of the wind. Miles.
		Lowest Night.		Highest Day.											
		Grass.	Air.	Shade.	Sun.										
January ..	29.77	19	21	52	75	35	15.6	3.15	88	38.0	38.9	42.8	7	2830	
February ..	30.11	20	27	52	89	58	47.1	2.07	78	40.0	38.1	41.2	18	3970	
March ..	29.78	21	26	55	97	55	94.3	5.83	77	41.5	39.8	41.0	23	6140	
April ..	29.85	22	30	63	109	45	90.6	3.59	73	44.8	44.3	42.3	24	4485	
May ..	29.91	29	34	77	126	40	166.1	2.65	67	51.9	52.4	46.6	30	3995	
June ..	30.06	40	44	75	124	45	133.9	1.80	67	56.8	57.8	51.7	30	3850	
July ..	30.07	39	43	73	122	28	95.2	0.96	69	57.2	59.5	54.3	22	2740	
August ..	30.08	36	41	79	119	25	130.9	1.31	68	58.3	59.8	55.9	26	2820	
September ..	29.99	32	38	78	119	25	97.8	2.27	69	56.5	56.1	55.4	28	2350	
October ..	29.91	28	36	64	100	25	61.9	2.02	79	51.1	50.6	53.5	28	2670	
November ..	29.78	23	34	59	89	42	48.4	4.04	82	46.5	45.1	49.2	16	5810	
December ..	30.05	15	22	53	65	50	26.3	4.26	84	39.9	40.4	45.7	10	6970	
Averages or Totals ..	29.95	—	—	—	—	—	1008.1	33.95	75	48.5	48.6	48.3	22	48630	

Number of Lodgers using the Corporation Model Common Lodging House since 1893.

Date	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913
January ..	6556	5821	6108	5963	6677	6486	7111	5954	5708	5667	5643	5646	5696	5696	5690	5931	5843	5517	5753	5594	5793
February ..	5754	5282	5841	5815	5908	5908	6152	5947	5391	5464	5474	5565	5699	5825	5123	5582	5283	5025	5210	5316	5219
March ..	6318	5658	6422	6332	6549	6658	7295	5749	5380	5503	5506	5383	5412	5499	5680	5975	5783	5708	5802	5710	5740
April ..	6191	5632	5811	6069	6687	6548	7361	5703	5687	5504	5452	5371	5516	5515	5481	5778	5585	5557	5547	5491	5587
May ..	6052	5814	5773	6237	7210	7038	7692	5791	5469	5460	5492	5377	5493	5519	5677	5975	5757	5642	5839	5743	5747
June ..	5714	5278	5775	6691	6058	6798	6539	5587	5510	5692	5272	5304	5470	5701	5494	5762	5381	5608	5631	5385	5565
July ..	5917	5440	5987	6664	6472	6601	6816	5635	5274	5326	5369	5190	5310	5393	5670	5983	5661	5793	5703	5739	5765
August ..	5710	5192	5898	6786	6342	6567	6073	5685	5353	5311	5615	5506	5678	5700	5687	5979	5776	5814	5575	5646	5860
September ..	5621	5647	5363	6761	5963	6573	6195	5939	5390	5529	5390	5665	5696	5702	5514	5782	5568	5665	5512	5556	5633
October ..	5867	5685	6015	7123	5629	6671	6671	5734	5318	5529	5599	5501	5473	5510	5700	5977	5456	5866	5681	5739	5886
November..	5885	5482	6329	6940	5476	6745	6999	5662	5503	5656	5491	5674	5649	5702	5517	5774	5567	5565	5522	5463	5566
December	5860	5767	6224	6957	6332	7218	7399	5967	5447	5494	5646	5491	5470	5510	5607	5860	5539	5810	5380	5671	5751
Total ..	71,445	66,698	71,546	78,338	75,303	79,811	82,303	69,353	65,420	66,135	65,949	65,673	66,562	67,272	66,840	70,358	67,199	67,570	67,155	67,053	68,082

For these figures I am indebted to the Superintendent of the Corporation Model Lodging House.

WATER SUPPLY.

All the houses in the Borough, with the exception of a few in outlying districts, and which obtain their water from wells, are supplied with water by the Corporation Water Department. The service is constant.

DESCRIPTION OF THE HUDDERSFIELD CORPORATION WATERWORKS.

The Waterworks derive their supply from three different sources, viz :—The Longwood Reservoirs, the Blackmoorfoot and Deerhill Reservoirs, and the reservoirs and springs in Wessenden Valley.

The Longwood Reservoirs are two in number, situate at the foot of the east side of Scapegoat Hill, and distant from Huddersfield $2\frac{3}{4}$ miles. The supply to these reservoirs is from three separate springs, which rise near the top of the hill above, and the water is piped direct into the upper storage reservoir, which contains when full 50,000,000 gallons, and covers an area of $7\frac{3}{4}$ acres. The lower reservoir, situate at the foot of the embankment of the upper one, is also supplied with water from the same source, and acts as a service reservoir ; it has a capacity of 20,299,134 gallons, and covers an area of $3\frac{1}{2}$ acres. The water from this source is piped down to a service tank at Clough Head, Longwood, and to Spring Street Tank, Huddersfield. It has also a connection with the Snodley Service Reservoir. The Longwood Millowners' Compensation Reservoir is constructed on the Longwood Brook, with a capacity of $40\frac{1}{2}$ million gallons, and water area of $9\frac{1}{4}$ acres when full.

The Blackmoorfoot Reservoir is situate on the south-west side of Huddersfield, at a distance of four miles, and at an elevation of 831 feet above the sea level to top water line. This reservoir contains 700 million gallons.

The water covers an area of $101\frac{3}{4}$ acres when the reservoir is full. The drainage area is 1,900 acres, and the water from this gathering ground is conveyed into the reservoir by means of catch-

water conduits constructed along the contours of the hills for a distance of $5\frac{1}{2}$ miles.

There are two embankments to this reservoir, one on the north side and one on the south side.

The larger embankment is that on the north side, being 850 yards long, 400 feet wide at its base, and 70 feet high.

The Southern embankment is 500 yards long, 240 feet wide at its base, and 40 feet high.

The supply of water to the town and neighbourhood from this reservoir is three million gallons per day, exclusive of compensation water, 841,680 gallons, which is given out during 12 hours of every lawful working day.

The main pipe from this reservoir to Huddersfield is laid from the north tunnel entrance, along the highway in the Township of Linthwaite, to the village of Milnsbridge, where it crosses under the bed of the River Colne, and thence under the viaduct of the London and North-Western Railway at Longwood Station, near which there is a connection with the Longwood Reservoir main, whereby water can be sent into that reservoir to supplement its own supplies as required. The main then passes on to Paddock, and thence across the fields to Marsh, and along the New Hey Road into the Snodley Service Reservoir at West Hill, which is situate at a height of 500 feet above sea level, and is constructed to hold 1,250,000 gallons. From this Service Reservoir water is distributed through the town, and is also taken forward along the Leeds Road for the supply of Mirfield and Ravensthorpe.

The main from the south entrance tunnel at Blackmoorfoot conveys the water to the villages of Netherton, Armitage Bridge, Berry Brow, Honley, Almondbury, Kirkheaton, Lepton, Kirkburton, Shelley, and Shepley, and also to a portion of Huddersfield.

The Deerhill Reservoir is situate in Lingards Township on the slope of the west side of the hill from which it derives its name. Its top water level is 1,144 feet above sea level. It contains 160 million gallons of water, covers 38 acres, and has a drainage area

of 1,200 acres. The water is conveyed into the reservoir by means of a Catchwater Conduit $3\frac{1}{2}$ miles long, in Marsden Township. Filter beds have been built at the foot of the North Bank of the reservoir in order to filter all the water before entering the mains. Compensation to the millowners in the Wessenden and Colne Valleys is delivered from this reservoir at various points, amounting in the aggregate to 358,560 gallons every working day. There is also a connection from this reservoir with the Wessenden main, which supplies the high levels, so as to supplement that supply as occasion requires. A 12-inch main is laid from this reservoir via Meltham, Netherthong, Thongsbridge, and Newmill to the tank at Shepley Marsh, for the supply of the higher parts of Shepley, Shelley, Lepton, and Emley Townships.

The Wessenden Springs are situate on the west side of the Wessenden Reservoir, consisting of the Great Dyke Springs, the Blake Clough and Blakeley Clough Springs, which are piped into a tank situate at an elevation of 1,025 feet above sea level, from which the water is conveyed by a 9 inch main laid down the valley to Marsden, and thence passing along the Manchester and Huddersfield Turnpike Road to Slaithwaite, where there is a connection with the Deerhill main. From thence the main that supplies Golcar branches off up the Crimble Valley to the Service Reservoirs at Windy End and Clough Head, and thence to Outlane. The main continues along the Manchester Road, through Milnsbridge and Quarmby, to the Service Reservoir at Lindley. These springs yield on an average 500,000 gallons per diem.

The surplus water after supplying the 9 inch main above referred to, passes into an 18 inch main laid across the valley to the Catchwater Conduit at Scout, and thence along such Conduit into the Blackmoorfoot Reservoir. This main was laid in the year 1887.

There are four reservoirs in the Wessenden Valley.

The old Wessenden Reservoir is situate at an elevation of 984 feet above sea level, and of a capacity of 107 million gallons.

The Wessenden Head Reservoir is situate at an elevation of 1,268 feet above sea level, with a capacity of 82 million gallons.

From this reservoir a 12 inch main is laid via Marsden, Slaithwaite, and Golcar to Scapegoat Hill, Longwood. Here a Service Reservoir, with a capacity of $1\frac{1}{2}$ million gallons, has been built to supply the high level districts.

The Blakeley Reservoir, authorised by the Waterworks Act of 1871, is constructed by placing an embankment across the Wessenden Valley, above the top water level of the Butterley Reservoir, and about a mile up the valley from the Butterley Dam. This reservoir covers an area of about $9\frac{1}{2}$ acres. The top water level is 848 feet above sea level, the depth of water in front of the embankment is 63 feet, and the height of embankment 80 feet above the level of the Wessenden Brook at the point of crossing. The capacity is 80,000,000 gallons.

The Butterley Reservoir, authorised by the Act of 1890, and which was filled with water to overflowing for the first time on December 5th, 1906, is formed by an embankment placed upon the site of Upper Bank Bottom Mills, at the lower end of the Wessenden Valley, the top of which is 111 feet above the bed of the stream. The capacity is 403 million gallons, surface area 43 acres, the greatest depth of water 94 feet. Top water is 770 feet above sea level. Compensation water is given out from this reservoir at the rate of 2,258,640 gallons per working day in respect of the Wessenden Valley watershed. From this reservoir a 24 inch main is laid for domestic and trade purposes via Marsden, Lingards, Linthwaite, and Golcar to Longwood Lower Reservoir to supplement the low level supply. Six Bell's Filters were erected during 1910 at Longwood Reservoirs for filtering the water from this reservoir.

The whole of the supply is by gravitation, and the drainage area of the reservoirs is chiefly moorland or high mountain pasture and millstone grit formation, which is the best known natural filter. The capacity is 403,513,000 gallons.

SANITARY ACCOMMODATION IN HUDDERSFIELD.

	1912	1913
Number of clean water closets, including trough closets	9,926	10,464
Number of waste water (slop) closets ..	208	208
Number of tub closets	15,100*	15,180†
Number of tubs in use	15,755	15,671†
Number of ashpits in use	8,000*	6,446†
Number of ashbins in use	3,500*	6,911†
Number of existing privy middens	300*	312†

* These figures were estimates made by the Scavenging Superintendent and the Inspector of Nuisances, early in 1913.

† This information was kindly supplied by the Scavenging Superintendent.

NOTE.—The reason why the number of tub closets shews an increase and the number of tubs in use a decrease, is that there are a number of closets in the town containing two tubs. In many instances, every year these are being divided and made into two separate closets.

Closet conversions during 1913 carried out under Sanitary Notices.

Privies with fixed receptacles converted to privies with moveable receptacles	11
Privies with fixed receptacles converted to clean water closets	19
Privies with fixed receptacles discontinued and demolished ..	3
Privies with moveable receptacles converted to clean water closets	21

NOTE.—In every case where a sufficient sewer and water supply is available, all new closets erected must be on the water carriage system, and be flushed with clean water.

REMOVAL OF NUISANCES.

	1st quarter.	2nd quarter.	3rd quarter.	4th quarter.	TOTALS.
Drains requiring Re-construction	24	22	20	11	77
Do. connecting with main sewer ..	6	5	5	2	18
Drains not efficiently trapped ..	11	13	9	2	35
Do. requiring Ventilation Shafts ..	14	15	15	7	51
Defective Sink Pipes and Drains ..	50	70	42	34	196
Do. Yard Drains ..	54	47	79	49	229
Do. Cellar Drains ..	15	8	5	13	41
Do. Eave and Fall Pipes ..	53	37	27	26	143
Do. Roofing ..	14	19	13	21	67
Do. Urinals ..	..	6	..	..	6
Do. Baths ..	1	4	..	3	8
Do. Water Closets ..	17	22	11	9	59
Do. Flooring ..	1	..	..	..	1
Waste Pipes requiring Disconnecting ..	13	12	21	14	60
Fall Pipes requiring Disconnecting ..	24	44	17	12	97
To provide Eave and Fall Pipes ..	15	2	3	7	27
Do. Sinkstones in Houses ..	7	8	1	9	25
Nuisances from want of Drains ..	8	3	1	1	13
Do. Water in Cellar ..	4	4	7	..	15
Do. Cellar Wells ..	1	1	..	6	8
Do. Cess Pools ..	1	3	1	..	5
Do. Street Gullies ..	10	15	14	23	62
Do. Stagnant Water ..	14	9	2	..	25
Do. Defective Surface of Yard ..	3	21	3	11	38
Do. Smoke ..	6	20	13	15	54
Do. Poultry, Pigeons, and Animals ..	..	1	2	6	9
Offensive Accumulations ..	12	1	6	4	23
Do. Ashpits and Privies ..	6	14	7	3	30
Do. Swill Tubs ..	..	1	..	..	1
Do. Urine Receptacles ..	..	..	..	4	4
Urine Guards required ..	3	8	1	1	13
Closets requiring Lime-washing ..	1	14	11	12	38
Ashpits and Closets requiring Re-construction ..	29	18	18	19	84
Do. requiring proper doors and covering ..	26	36	26	32	120
Old Privies requiring alteration to tub or w.c. system ..	5	8	15	11	39
Insufficient Closet Accommodation ..	16	13	8	17	54
Houses Overcrowded ..	7	8	8	4	27
Do. Unfit for Habitation ..	36	1	..	2	39
Do. Requiring Cleansing ..	5	7	5	15	32
Do. Requiring Ventilation ..	18	7	22	26	73
Do. Damp ..	19	..	13	27	59
Do. Requiring Water Supply ..	..	4	1	..	5
Workshops requiring Fire Escapes ..	..	1	..	..	1
Workshops requiring Lime-washing ..	4	5	3	7	19
Factories requiring Fire Escapes ..	..	..	1	..	1
Cowsheds requiring Lime-washing ..	..	3	..	2	5
Do. Draining ..	..	1	..	..	1
Do. Lighting ..	..	..	..	..	..
Do. Paving ..	..	..	..	..	..
Do. Ventilation ..	..	..	..	..	..
Bakehouses requiring Lime-washing or Cleansing ..	..	..	1	1	2
Bakehouses requiring Ventilation ..	..	..	..	..	..
TOTALS ..	553	561	457	468	2039

SUMMARY.

	1st quarter.	2nd quarter.	3rd quarter.	4th quarter.	TOTALS.
No. of Premises where Notifiable diseases have occurred	303	223	336	229	1091
Do. inspected .. do. do. ..	303	223	336	229	1091
Do. disinfected .. do. do. ..	202	117	291	159	769
Do. flushed .. do. do. ..	268	186	251	166	871
Do. visited searching for fever	267	327	184	237	1015
Number of re-visits where cases are isolated at home	197	147	133	155	632
Do. houses visited for Zymotic or other particulars	207	248	301	206	962
Total number of visits to infected houses	849	863	990	770	3472
Cases removed to Hospital, &c.	164	99	100	93	456
Number of Articles disinfected by Lyon's Disinfecter	7046	3370	2446	2355	15217
Number of visits in deaths from Phthisis	53	53	42	30	178
Do. Under one	69	62	83	68	282
Number of premises flushed by request of owners (paid for)	53	76	63	54	246
Other premises, yards or courts flushed	298	292	302	405	1297
Drains found choked by Flushers	186	224	245	289	944
Drains made clear	177	215	239	282	913
Number of Tubs registered	7	8	1	6	22
Do. applications received to empty Ashpits and Privies	67	88	67	62	284
Do. do. do. Receptacles	5	9	8	5	27
Nuisances reported to Public Health Department ..	89	138	123	105	455
Do. inspected	89	138	123	105	455
Inspection of premises where nuisances are found ..	276	288	257	261	1082
Do. premises where no nuisances are found ..	483	830	881	718	2912
Do. premises where offensive trades are conducted	25	60	34	49	168
Do. Dwellinghouses in house to house visitation	1	154	65	47	267
Do. Cellar Dwellings	370	142	149	192	853
Do. Houses let in lodgings and Common Lodging Houses	164	122	104	104	494
Do. Workshops	17	19	35	25	96
Do. Factories	9	19	18	7	53
Do. Schools	47	51	91	196	385
Do. Slaughter Houses	106	137	105	134	482
Do. Canal Boats	57	15	3	9	84
Do. Dairies and Milkshops	210	266	7	253	736
Do. Cowsheds	160	209	3	229	601
Do. Bakehouses	30	65	148	199	442
Do. Markets and Shops	70	..	45	..	115
Do. Van Dwellings	553	732	761	506	2552
Re-visits to works in progress	820	941	1002	1062	3825
Visits to property under notice	3398	4050	3708	3991	15147
Total number of Inspections of Premises	200	224	168	160	752
No. of Entries in Report Books	50	82	52	58	242
Preliminary Notices to Owners	141	111	51	77	380
Number of Legal Notices issued for abatement or abolition of nuisances	346	319	307	364	1336
Owners seen personally	3	1	2	2	8
Summonses taken out					

SUMMARY.—Continued.

	1st quarter.	2nd quarter.	3rd quarter.	4th quarter.	TOTALS.
Sections of New Drains tested	34	26	19	31	110
Do. and satisfactory at first test	34	26	19	31	110
Old Drains tested	26	59	20	14	119
Do. and found sound	4	38	13	5	60
Do. and found defective	22	21	7	9	59
Smoke observations taken	61	209	425	224	919
Number of visits under Food and Drugs Acts ..	163	143	60	39	405
Food and Drugs—samples purchased	101	84	49	21	255
Do. do. adulterated	9	10	4	5	28
Meat, seizures made or destroyed	2 pairs of sheeps lungs, 6½ cwts. beef.	31¼ cwts. beef, 1¼ cwts. pigs maws 6 cwts. pork.	1 beast's liver. 4 pairs sheeps lungs, 7 stones pork. 15 lbs.	26 cwts. 3 qrs. 15 lbs.	72 cwts. 2 qrs 1 lb. 6 pairs of sheep's lungs, 1 beast's liver. 55 lbs. prawns,
Fish do. do. .. ..	..	18 cans food, 40 lbs. prawns.	15 lbs. prawns.	..	..
Fruit & Vegetables do.	27 tins.	30 head of lettuce.	..	22 tins food stuffs	67 tins, 30 head of lettuce.
Water Samples taken for Analysis	5	..	3	1	9
Do. polluted	5	..	3	..	8
No. of visits under Fertilizers and Feeding Stuffs Acts ..	..	1	..	..	1
No. of Samples procured do. do. ..	..	2	..	..	2
Do. found adulterated .. ..	..	..	..	..	..
No. of visits under Rag Flock Act .. ..	..	..	8	..	8
Do. Samples taken .. ..	..	..	1	..	1
Do. do. certified to be polluted .. ..	..	..	..	..	..

INSPECTORIAL WORK.

DRAINAGE, NUISANCES AND SO FORTH.

The two returns on the preceding pages present in tabular form the work performed by the Sanitary Inspectors during the year under review.

The tables are worthy of a careful perusal and from them some idea of the onerous and diversified work of the Sanitary Inspectors may be formed. The amount of work accomplished is so great and varied, that it is practically an impossibility to describe it in detail, but the following facts and figures have been abstracted as being well worth particular notice.

The total number of inspections of different classes of premises, during the year, reached 15,147, including 820 inspections of dairies, cowsheds and milkshops, 853 inspections of common lodging houses and houses let in lodgings, 442 inspections of markets and shops, 3825 visits to property under notice, and 2552 visits to work in progress.

In addition to the above, 3472 premises where infectious disease had occurred, were visited for purposes of disinfection or enquiry.

Two thousand four hundred and fourteen premises have had the drainage arrangement flushed for the removal or prevention of insanitary conditions. In 246 cases the flushing was carried out at the request of the owner or occupier, who paid for the work, and in 871 instances the drains of premises where infectious disease had occurred have been flushed.

In 913 instances where drains were found choked, the flushing staff of the Department were able to effect a clearance thereof without having recourse to opening out the ground.

Four hundred and fifty-five complaints of nuisances existing were received by the Department during 1913. In every instance prompt enquiry was made into the matter and immediate action taken where necessary to effect improvement in the condition of affairs complained of.

In the Nuisance Report Books of the Sanitary Inspectors, the number of entries totalled 752, and in connection therewith, 1336 interviews have taken place with the owners or agents of properties concerned. In addition, 242 preliminary notices and 380 legal notices have been issued in respect of the above entries.

In 728 of the above cases the work necessary was carried out as the result of the action taken by the Public Health Department, of the 24 remaining, in 11 instances the work required is in hand, whilst in 13 cases nothing has yet been done.

Common Lodging Houses.

At the end of December, 1912, there were 29 Common Lodging Houses on the Register, accommodation for 825 lodgers, viz :—

Single Men.	Single Women.	Married Couples.	No. of Beds.			
733	..	12	..	25	..	799

During 1913, a block of buildings containing four of the above registered Common Lodging Houses, situate in Kirkgate, have been demolished. A Common Lodging House in Castlegate has been discontinued, and at another one in the same street, owing to alterations, the registered accommodation has been reduced from 21 to 19 persons.

There have been no additions to the Register of Common Lodging Houses, but in two instances there has been a change in the keepers of houses during the year.

At the end of the year there was 24 Common Lodging Houses on the Register, accommodating 764 lodgers, namely :—

Single Men.	Single Women.	Married Couples.	No. of Beds.			
705	..	11	..	24	..	739

so that it will be seen that the decrease in the accommodation provided for this class of population, is equivalent to 60 beds, 58 for Single Men, 1 for Single Women, and 1 for Married Couples.

At the Municipal Common Lodging House in Chapel Hill, the accommodation amounts to 185 beds for 193 lodgers, viz :—166 Single Men, 11 Single Women, and 8 Couples, and of course this provision is in addition to that above indicated.

During the year 362 visits have been paid to these houses, 174 of these visits were made during the night.

The standard of cleanliness was, on the whole, very well maintained, and with two exceptions proper regard was found to be paid to the requirements of the Bye-laws of the Corporation. The two exceptions were with regard to registered houses, Nos. 8 and 26 respectively, where overcrowding was found. Proceedings in the Police Court were instituted, but owing to the exceptional circumstances revealed in these two cases, the summonses were withdrawn on the advice of the Magistrates.

On the following page, a list is given of the Registered Common Lodging Houses in the town at the end of 1913 (excluding the Municipal Common Lodging House before-mentioned), showing the situation of each house, its keeper and the number of lodgers each house is registered to accommodate.

COMMON LODGING HOUSES.

Registered No.	Name of Keeper.	Situation of Common Lodging House.	Registered to Accommodate.				Remarks.
			Single Men.	Single Women.	Married Couples.	Total.	
1	Eliza Wood	New Model, Kirkgate	62	..	..	62	62
2	John O'Hara	28, Castlegate	11	..	..	11	11
3	Joseph Cliffe	23 & 27, High Street	31	..	..	31	31
4	Joseph O'Brien	40, Manchester Street	16	..	..	16	16
5	Frank Bohuker	54, Castlegate	9	..	2	13	11
6	Thomas Joyce	7, 9 & 11, Beast Market	65	..	..	65	65
7	John Rafferty	59, Castlegate	12	..	3	18	15
8	Do.	61 & 63, Castlegate	24	6	5	40	35
9	Kate Blake	15 & 17, Castlegate	42	..	3	48	45
10	Thomas Joyce	26, Lowerhead Row	37	..	..	37	37
11	John William Brown	37, Denton Lane	48	..	..	48	48
13	John Sykes	6, Bradley Street North	27	..	..	27	27
14	Frank Bohuker	4, Richardson's Buildings, Castlegate	..	3	1	5	3
15	John O'Hara	2, 3, 4, 5, 6, 11 & 12, Old Post Office Yard	37	2	4	47	43
19	Ann Ellen Dolan	10 & 12, Castlegate	22	..	..	22	22
23	John Pinder Collinson	33, High Street	22	..	..	22	22
24	Mary Greenley	73, Castlegate	5	..	3	11	8
26	William Rogers	8, Boulder's Yard, Castlegate	13	..	3	19	16
28	George Dyson Darwent	1, Rosemary Lane	50	..	..	50	50
30	Patrick Butler	21, Macaulay Street	26	..	..	26	26
31	John Draper	85, King Street	25	..	..	25	25
32	James Archer	3, Northgate	22	..	..	22	22
33	Frank Gannon	5, Lowerhead Row	19	..	..	19	19
34	Thomas McGowan	10, Albion Street	80	..	..	80	80

Transferred to Ernest Broadbent, July, 1913.

Transferred to Alfred Culpin, April, 1913.

Houses Let in Lodgings.

This class of house are subject to inspection and registration under clause contained in the Huddersfield Improvement Act of 1871.

The short tabular statement given below shows the number of houses let in lodgings on the registers at the beginning of the year, the number of such house removed from the register and the number of new houses registered as houses let in lodgings.

Houses let in lodgings on register, January 1st, 1913	187
Houses removed from register during the year 1913	46
Houses added to the register during the year 1913 ..	6
Net decrease	40
<hr/>	
Houses remaining on the register on December 31st, 1913	147

Of the above houses 118 are in the Central Ward of the Borough, and 29 are contained in the outer Wards.

In the 147 houses accommodation is afforded for 897 lodgers in 300 rooms.

The supervision exercised over this class of house by the Officers of the Public Health Department, during recent years has been very inadequate, and the year 1913 formed no exception. At the commencement of the year, strong efforts were made to establish a system of frequent and regular visitation, but owing to the personnel of the Inspectorial Department again undergoing frequent changes (on account of the inadequate salaries paid) and to the fact that owing to the same reason any vacancies which occur are usually filled by Inspectors who have had very little or no practical experience, the attention given to Houses let in Lodgings has not been either as frequent or systematic as is to be desired.

HOUSING, TOWN PLANNING, ETC., ACT, 1909.

REPORT ON HOUSING.

The houses in the Borough are comprised of back to back and through houses.

There are at present 248 occupied cellar dwellings.

Excepting certain areas in the Central Districts of the town, the houses generally are in good condition, but there is an insufficiency of low rented houses for the working classes.

For the alleviation of the existing overcrowding, and lack of sufficient low rented houses in the Borough, and to provide for the people who are being compelled to vacate cellar dwellings in compliance with the Public Health Act, 1875, and Housing, Town Planning, &c., Act, 1909, the Housing, Town Planning, &c. Committee have had erected at Moldgreen 38 Tenement Dwellings and six Through Houses, the whole of which are now tenanted. There are at present in course of erection 22 Tenement Dwellings in the Moldgreen Ward, and 36 at Kirkgate, and the Committee contemplates erecting a further 25 at Bradley, 24 at Salendine Nook, 30 at Meltham Road and 48 at Royds Hall, making a total of 229 houses.

The number of new houses erected during the year was 325. The supervision of the construction of these houses is carried out by the Borough Engineer.

Population of Borough at Census, 1911	..	..	107,821
No. of inhabited houses at Census, 1911	..	..	25,879
Average number of persons per house at Census,			
1911	..	..	4.17
Estimated population at the middle of the year			
1913	..	..	110,882
Estimated number of inhabited houses of the year,			
1913	..	..	26,788
Averaged number of persons per house of the year			
1913	..	..	4.14

SUMMARY OF HOUSING WORK DONE DURING
THE YEAR 1913.

Total number of houses inspected	.. ..	771
Total number of houses which were found to be insanitary with regard to one or other of the items set forth in the Inspection of District Regulations, 1910	.. ..	709
(The general character of the above defects are shewn in Schedule below).		
Total number of houses considered to be uninhabitable (exclusive of underground rooms)	.. ..	30
Total number in which the Medical Officer of Health asked for closing orders	.. ..	30
Total number of closing orders made	.. ..	30
Number of houses ordered to be demolished	..	—
Number of these houses in which the defects were remedied without the making of closing orders	..	—
Number made habitable after Closing Orders had been made	.. ..	24
Number being made habitable after Closing Orders had been served but not completed by (Dec. 31st, 1913)		6
Total number of closing orders made in respect of under- ground rooms as per Section 17 (7) H.T.P., etc., Act, 1909	.. ..	13

SCHEDULE OF DEFECTS REFERRED TO.

Houses with defective roof, including spouts	..	..	191
Houses with defective walls	..	..	159
Houses with insufficient closet accommodation	..	44	
Houses with defective closet	..	..	86
Houses with defective ashes place	..	..	68
Houses with defective sink pipes and drains	..	..	350
Houses with defective sinks and sink linings	..	..	198
Houses with defective floors	..	..	116
Damp Houses	..	..	134
Houses with defective ventilation	..	..	369
Houses with defective windows	..	..	68
Overcrowded houses	..	..	20
Cellar dwellings	..	..	42
Defective yards	..	..	112
			<hr/> 1957 <hr/>
Number of houses involved	..	..	709
Number of houses in which the defects were wholly remedied	..	..	433
Number of houses in which defects were partially remedied	..	..	107
Number of houses in which none of the defects were remedied	..	..	169

DISEASES OF ANIMALS ACTS.**Tuberculosis Order, 1913.**

This Order came into operation on May 1st, 1913.

In Huddersfield the Watch Committee carry out the provisions of the Diseases of Animals Act, 1894-1911, but it was thought advisable that the provisions of the above Order should be administered by the Health Committee.

The Order has been administered in the Borough without the least friction between the farmers and the Public Health Department.

The following tabular statement is interesting. It shows the work carried out in the Borough under the Tuberculosis Order, during the period ended December 31st, 1913, the gross amount of compensation paid by the Corporation, the amount received in salvage from the Board of Agriculture and the nett cost to the Corporation for compensation.

DISEASES OF ANIMALS ACTS, 1894 to 1911.

TUBERCULOSIS ORDER OF 1913.

Statement as to premises on which Tuberculosis (a) reported [Arts. 2 and 3 (1)] but not confirmed [Art. 4 (6)]; and (b) found to exist [Art. 5 (1)] together with particulars as to animals affected on premises in the District of the Local Authority of Huddersfield, for the period May 1st, 1913 to December 31st, 1913 inclusive.

	Number of premises on which disease was reported [Arts. 2 and 3 (1)], but not confirmed [Art. 4 (6).]	Number of premises on which disease was declared to exist. [Art. 5 (1).]	Number of animals examined by Veterinary Inspectors (Art. 4).				Number of cases in which diagnosis was aided by use of Tuberculin [Art. 4 (1).]			CONCLUSIONS FROM POST-MORTEM. (Art. 7)						Number of animals for which compensation was paid. (Art. 8.)			Total compensation paid.	Salvage received for carcasses or parts of carcasses.	Grants received from the Board of Agriculture	Nett cost to Corporation for Compensation.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
			Number of animals found to be diseased. [Art 5 (1).]			Number of animals having Tuberculosis of the Udder.	Number of animals giving Tuberculous Milk.	Number of animals suffering from Tuberculosis with emaciation.	Number of animals Affected, but not as in Columns A, B, or C.	E	Full.	Three-fourths.	One-fourth or 30/-.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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			Other cows or heifers.	Other Bovine animals.	Tuberculosis of the Udder.	Giving Tuberculous Milk.	Tuberculosis with emaciation.	Number of animals having Tuberculosis of the Udder.	Number of animals giving Tuberculous Milk.	Number of animals suffering from Tuberculosis with emaciation.	Number of animals Affected, but not as in Columns A, B, or C.	Not Affected.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

FOOD INSPECTION.

FOOD AND DRUGS ACTS, 1875 TO 1907.

Report of Action taken under the above-named Acts in the County
Borough of Huddersfield during the year 1913.

1.—ARTICLES ANALYSED.

New Milk	..	..	..	105	of which 20 were certified as adulterated
Butter	..	..	..	52	
Coffee	..	..	..	25	of which 2 were certified as adulterated.
Tripe	..	..	..	19	of which 2 were certified to contain preservatives.
Preserved Cream	..	..	..	7	
Cocoa	..	..	..	6	
Margarine	..	..	..	4	
Pepper	..	..	..	4	
Cream	..	..	..	4	all of which were certified to contain preservatives.
Corn Flour	..	..	..	4	
Baking Powder	..	..	..	3	
Rice	..	..	..	3	
Demerara Sugar	..	..	..	3	
Marmalade	..	..	..	2	
Sweet Spirits of Nitre	..	..	..	2	
Gregory Powder	..	..	..	2	
Camphorated Oil	..	..	..	2	
Ground Rice	..	..	..	1	
Skimmed Milk	..	..	..	1	
Self-Raising Flour	..	..	..	1	

1.—ARTICLES ANALYSED.—Continued.

Condensed Milk	..	..	1
Dried Milk..	..	..	1
Custard Powder	..	..	1
Coffee and Chicory	..	..	1
Raspberry Jam	..	..	1

Total 255 of which 28 were certified as adulterated.

2.—DETAILS OF THE 28 SAMPLES REPORTED BY THE PUBLIC ANALYST TO BE ADULTERATED.

No.	Article.	Result of Analysis.	Proceedings.
	<u>6 Cream</u>	0.37 per cent. boric acid added.	Vendor seen and warned. Further sample taken and found to be properly labelled as required by the Milk and Cream Regulations, 1912.
25	New Milk	2.8 per cent. butter fat abstracted.	Vendor warned. Further samples taken and found to be of good quality.
26	do.	1.37 per cent. water added	do. do.
	<u>34 Tripe</u>	Contained 0.03 per cent. formaldehyde.	Further sample taken and found to contain no preservative.
	<u>35 do.</u>	Contained 0.008 per cent. formaldehyde.	do. do.
53	New Milk	3.0 per cent. butter fat abstracted.	Vendor warned, and further sample obtained and found to be of good quality.

No.	Article.	Result of Analysis.	Proceedings.
54	New Milk	16.7 per cent. butter fat abstracted.	At request of vendor, sample taken at place of delivery of milk to him. See No. 60 below.
55	Cream	0.21 per cent boric acid added.	Vendor warned by letter and also interviewed. Further sample taken. See No. 165.
60	New Milk	44 per cent. butter fat abstracted.	Summons issued. Defendant convicted and fined £5 and 9/- costs. See No. 54 above.
65	do.	2.3 per cent. water added	Adulteration not considered sufficient to warrant a prosecution.
73	do.	1.19 per cent. water added	do. do.
81	do.	14.71 per cent. water added	Vendor warned by Town Clerk. Further samples taken and found to be of good quality.
90	do.	2.88 per cent. water added.	Adulteration not considered sufficient to warrant a prosecution. Warning letter sent to vendor.
103	do.	4.62 per cent. water added.	Vendor seen personally and warned, and at his request sample taken at place of delivery of milk to him. See No. 106.
106	do.	3.54 per cent. water added.	Adulteration not considered sufficient to warrant a prosecution.

No.	Article.	Result of Analysis.	Proceedings.
109	New Milk	6.6 per cent. butter fat abstracted.	Vendor seen personally and warned, and at his request a sample taken at place of delivery of milk to him. See No. 114.
114	do.	3.34 per cent. butter fat abstracted.	Adulteration not considered sufficient to warrant a prosecution.
120	Coffee	Consisted of mixture of coffee and chicory in proportion of 3 parts of coffee to 2 parts of chicory.	The Town Clerk did not advise proceedings in this case.
129	do.	do. do.	do. do.
147	New Milk	4.59 per cent. water added.	Vendor warned by the Town Clerk.
149	do.	6.63 per cent. water added.	Summons issued. Defendant convicted and fined £15 and 7/- costs.
151	do.	2.95 per cent. water added.	Vendor warned by the Town Clerk.
152	do.	3.12 per cent. water added	do. do.
153	do.	56 per cent. butter fat abstracted and contains 1.61 grains of dirt per gallon.	In both these cases the milk had been obtained from the Cattle Market, where it is the practice of

No.	Article.	Result of Analysis.	Proceedings.
154	New Milk	15 per cent. butter fat abstracted and contains 1.91 grains of dirt per gallon.	cattle dealers to ease the udders of the cows, by drawing part of milk from them after a sale is effected and before cows are started for home. The cows are never milked dry, but simply eased and this probably accounts for the deficiency in butter fat. Medical Officer of Health and Deputy Town Clerk did not advise proceedings in these cases. A report on the subject was presented to the Health Committee, containing recommendations dealing with the matter and was referred by them to the Markets and Fairs Committee who have control of the Cattle Market.
158	do.	1.1 per cent. water added	Adulteration not deemed sufficient to warrant a prosecution. Vendor warned.
165	Cream	0.14 per cent. boric acid added.	Vendor warned by the Town Clerk and notified that if any further cause of complaint was discovered proceedings would follow.
166	do.	0.14 per cent. boric acid added.	do. do.

NOTE.—The articles underlined were informal samples.

3.—OFFENCES OTHER THAN ADULTERATION.

Nature of Offence.	Proceedings.
Contravention of Section 6, Margarine Act, 1887. Margarine delivered to purchaser in an unlabelled wrapper.	After consideration of the cir- cumstances it was felt that a personal warning given to vendor would meet the case. Vendor accordingly seen and warned by Inspector of Nuis- ances.

4.—LEGAL PROCEEDINGS.

No. of Sample.	Date of Purchase.	Offence Charged.	Name of Defendant.	Result.
60	Mar. 8	Selling New Milk from which 44 per cent. of the butter fat had been abstracted.	N.L. Outlane	Fined £5 and 9/- costs.
149	Aug. 17	Selling New Milk to which 6.63 per cent. of water had been added.	J.W.W. Sheepridge	Fined £15 and 7/- costs.

INFORMAL PROCEEDINGS.

During the year 1913, 83 samples were obtained in an informal manner, and submitted to the Public Analyst for analysis. They are included in the foregoing :—

These samples were made up of :—

Butter	..	..	..	..	..	..	35
Tripe	..	..	..	..	..	..	19
Coffee	..	..	..	..	..	..	10
Cocoa	..	..	..	..	..	..	5

INFORMAL PROCEEDINGS.—Continued.

Margarine	..	..	..	..	..	..	3
New Milk	..	..	..	..	..	..	3
Preserved Cream		..	..	..	..	..	3
Cream	..	..	..	..	..	..	1
Marmalade	..	..	..	..	..	..	1
Dried Milk	..	..	..	..	..	..	1
Custard Powder		..	..	..	..	..	1
Chicory and Coffee	..	..	..	..	..	..	1
Total							83

In addition to the above, 2 samples of milk have been examined bacterioscopically for Tubercle Bacilli. The result in each case was negative.

MILK AND CREAM REGULATIONS, 1912.

All the samples of milk submitted for analysis to the Public Analyst during the year, under the Sale of Food and Drugs Acts, have been examined by the Analyst for the presence of preservatives. With regard to samples of cream and preserved cream submitted, the percentage of milk fat and presence of preservatives has been determined, and in preserved cream, in addition, it has been ascertained as to whether or no the statement on the label as to nature and amount of added preservative is correctly stated.

The details are set out below :—

1.—MILK AND CREAM NOT SOLD AS PRESERVED CREAM.

		No. of samples examined for the presence of preservative.	No. in which a preservative was reported to be present.
Milk	..	105	..
Cream	..	4	4

2.—PARTICULARS OF CREAM SAMPLES IN WHICH PRESERVATIVES
WERE FOUND.

No. of Sample.	Nature and quantity of preservative found.	Action taken.
<u>6</u>	0.37 per cent. of Boric Acid.	Vendor seen and warned.
55	0.21 per cent. of Boric Acid.	Vendor warned. He explained that all jars were labelled as required by the Regulations, but in this case label must have fallen off.
165	0.14 per cent. of Boric Acid.	Vendor warned by the Town Clerk and notified that if any further cause of complaint was discovered proceedings would follow.
166	0.14 per cent. of Boric Acid.	Do. do.

NOTE.—The sample underlined was an informal one.

2.—CREAM SOLD AS PRESERVED CREAM.

(a) Instances in which samples have been submitted for analysis to ascertain if the statements on the label as to preservatives were correct :—

1. Correct statements made	..	..	7
2. Statements incorrect	..	..	..
Total	..	..	<u>7</u>

(b) Determinations made of milk fat in cream sold as preserved cream :—

1. Above 35 per cent.	..	..	7
2. Below 35 per cent.	..	..	..
Total	..	..	<u>7</u>

(c) Instances where (apart from analysis) the requirements as to labelling or declaration of preserved cream in Article V. (1), and the proviso in Article V. (2) of the Regulations have not been observed. 1.

(d) Particulars of each case in which the Regulations have not been complied with and action taken :—

No. of Sample.	Nature of Contravention.	Action taken.
56	Declaratory label did not comply with the requirements of the regulations.	Warning letter sent to Vendor who amended labels and brought them into compliance with the Regulations.

3.—THICKENING SUBSTANCES.

(1) Any evidence of their addition to cream or preserved cream.
No.

4.—OTHER OBSERVATIONS. None.

(Signed), A. BROOK,
Inspector under the Food and Drugs Acts.

DAIRIES, COWSHEDS AND MILKSHOPS.

The inspection of this class of premises which obtained during 1912, has been continued during the year under review. The number of visits paid by the District Sanitary Inspectors totalled 820.

At the end of the year 1913 there were in the Borough :—

Cowkeepers, who are also Milk Purveyors	..	180
Milk Purveyors only	.. .. .	79
Milk Shops, selling over counter	.. ..	45
		<hr/> 304

In addition 66 Milk Purveyors are on the register who live outside the Borough.

The older type of Cowsheds in the Borough still continue to be unsatisfactory, and while the law relating to such premises remains in its present unsatisfactory state, much improvement cannot be looked for.

If the law regulating cowsheds could be amended so as to throw the responsibility of making structural alterations onto the owner, and if in addition, it was enacted that no place should be used as a Cowshed unless it was licensed by the Sanitary Authority of the district in which it was situate, and being suitable in all respects for use as a Cowshed, then an immediate improvement would ensue, not only in Huddersfield, but throughout the country.

The standard of cleanliness of the Dairies, Cowsheds and Milkshops has been well maintained throughout the year, indeed in this respect they will compare favourably with any in the country.

The following short tabular statement give the number of milch cattle inspected by the Veterinary Inspector of the Department during 1913, and shows the number of farms and Cowsheds visited.

Number of Farmsteads	.. .. .	139
Number of Cowsheds	.. .. .	255
Number of Milch Cattle	.. .. .	1597

During these inspections a cow was found exhibiting symptoms of Tubercular Mastitis. This animal was dealt with under the provisions of the Tuberculosis Order, of 1913, the post mortem examination revealed lesions of advanced tuberculosis in the animal.

In the above visitation of Farms and Cowsheds the Veterinary Inspector was accompanied by a District Sanitary Inspector.

**FACTORY AND WORKSHOPS ACT,
1901.**

**REPORT OF INSPECTIONS AND OF ACTION THEREON
During 1913.**

By Section 132 of the above-named Act, the duty is laid upon the Medical Officer of Health of every District Council in his annual report to them, to report specifically on the administration of the Act in his district.

The duties imposed upon Sanitary Authorities under this Act have reference to the following subjects :—

- (a) Registration of Workshops.
- (b) Sanitation and Sanitary Accommodation and Conveniences.
- (c) Special Sanitary Provisions for Bakehouses.
- (d) Fire escapes.
- (e) Home Work.
- (f) Miscellaneous.

(a) Registration.—The total number of workshops (including bakehouses) on the Register on December 31st, 1912, was 983. During the year 1913, 24 new workshops have been added to, and 15 removed from, the Register, showing a nett increase of 9 during the year. The number of bakehouses on the Register is 156. The total number of workshops included in the following classified list is 992.

CLASSIFIED LIST OF WORKSHOPS.

	On Register Dec. 31st, 1912.		Added during 1913.		Removed during 1913.		Remaining Dec. 31st, 1913.	
	Central District.	Outer Districts.	Central District.	Outer Districts.	Central District.	Outer Districts.	Central District.	Outer Districts.
Dress and Mantle Makers and Milliners, Tailors, Waterproof Manufacturers, &c.	147	109	..	..	1	2	146	107
Boot and Shoe Makers, Cloggers, Saddlers and Curriers	66	111	..	6	..	..	66	117
Black, Shoeing, Tin, and White Smiths; Cycle Repairers, &c.	34	24	..	..	..	..	34	24
Joiners, Cabinet Makers, Wood Carvers, Picture Framers and Gilders	32	45	..	2	..	1	32	46
Plumbers, Painters and French Polishers	42	27	..	1	..	..	42	28
Coopers, Carriage Builders, and Wheelwrights	10	15	..	..	..	..	10	15
Watchmakers, Jewellers, Engravers, and Electrical Engineers	27	6	..	..	..	..	27	6
Rug Makers and Rag and Wool Sorters	22	12	..	..	..	..	22	12
Upholsterers, Basket and Brush Makers	20	3	..	..	..	..	20	3
Hosiery Knitters, Shirt Makers, and Laundries	4	14	..	..	..	..	4	14
Monumental Sculptors	2	4	..	..	..	..	2	4
Organ Builders, Piano Repairers, &c...	6	1	..	..	..	..	6	1
Tripe Dressers	7	4	..	..	..	..	7	4
Bakehouses	51	101	5	10	4	7	52	104
Manufacturing Chemists; Mattress, Corset, Blind, and Waggon Cover Makers; Wire Workers, Tea Packers, Teazle Trimmers, Rope Makers, Tallow Chandlers, &c., &c.	28	9	..	..	..	..	28	9
	498	485	5	19	5	10	498	494
	983		24		15		992	

(b) Sanitation.—One thousand one hundred and ninety-one inspections of factories, workshops, and bakehouses have been made as to cleanliness, air space, ventilation, drainage, and closet accommodation.

Ninety-five cases of infringements of the Public Health Acts and of the Factory and Workshops Act were found during these inspections. Eighty-five of these infringements have been remedied. In 71 cases written notices were served requiring the infringements to be remedied in accordance with the requirements of the notices.

In many of the unremedied infringements the necessary work is either in progress or has been given into the hands of contractors ; and in others is under the consideration of the persons involved therein. Further inspections will be made in due course, and appropriate action taken.

Sanitary Accommodation and Conveniences.—The question of the provisions of closet accommodation, the allocation of the same to sexes, and the proper ventilation and screening thereof, has had attention during the past year. As will be seen from the return hereto, 22 contraventions of Section 22 of the Public Health Acts Amendment Act, 1890, and of the Sanitary Accommodation Order have been met with. Of these 20 have been remedied.

(c) Special Sanitary Provisions for Bakehouses.—There are 156 bakehouses now on the Register, an increase of 4 on the year. The number of cellar bakehouses remaining on the Register is 7. The bakehouses are systematically inspected as to cleanliness, closet accommodation, domestic washing, and sleeping places.

One breach of the special sanitary requirements for bakehouses was brought to light during the year, which was in due course remedied.

(d) Fire Escapes.—In the visitation of factories and workshops special attention has been directed to the means of escape in case of fire.

One notice has been received under Section 14 from the Factory Inspector, relating to one factory, and during the inspection of factories

and workshops, insufficient means of escape in case of fire was found at one factory and one workshop. In all of these cases the necessary alterations have been effected.

(e) Home Work.—The total number of lists received during 1913 was 29, made up of 18 lists from employers of home workers, and 11 lists from Sanitary Authorities of other towns. These lists contained in all 91 names. Of these 24 were out-contractors and 67 workhands. The lists received from employers in the town contained the names of 8 out-contractors and 63 workhands. Two of the out-contractors and 2 of the workhands addresses were outside the Borough and were accordingly sent on to the proper quarter. The lists received from other Sanitary Authorities contained 16 names of out-contractors and 4 workhands, whose addresses were in the Borough.

All the premises in the Borough were visited and inspected.

No case of refusal to admit the Inspector has arisen during the year.

The appended table is abstracted from and is a concise compilation of the return forwarded to the Home Office on the administration of the Factory and Workshops Act, 1901, in the County Borough of Huddersfield for the year 1913 :—

FACTORIES, WORKSHOPS, WORKPLACES AND HOMEWORK.

1.—INSPECTION.

Including Inspections made by Sanitary Inspectors or
Inspectors of Nuisances.

Premises.	Number of		
	Inspections.	Written Notices.	Prosecutions
Factories	103	61	..
(Including Factory Laundries)			
Workshops	1088	10	..
(Including Workshop Laundries)			
Workplaces			
Total	1191	71	..

2.—DEFECTS FOUND.

Particulars.	Number of Defects.			Number of Prosecutions
	Found.	Remedied.	Referred to H.M. Inspector	
<i>Nuisances under the Public Health Acts:—*</i>				
Want of cleanliness	18	18	..	..
Want of ventilation	3	2	..	..
Overcrowding .. .. .	..	..	..	..
Want of drainage of floors .. .. .	..	..	..	..
Other nuisances, including emission of black smoke	48	41	..	..
Sanitary accommodation {	insufficient	1	..	..
	unsuitable or defective	20	18	..
	not separate for sexes	1	1	..
<i>Offences under the Factory and Workshop Acts:—</i>				
Illegal occupation of underground bakehouses (S. 101) .. .. .	..	..	..	..
Breach of special sanitary requirements for bakehouses (SS. 97 to 100)	1	1	..	..
Other offences, including escape in case of fire	3	3	..	..
(Excluding offences relating to out-work which are included in Part 3 of this Report).				
Total	95	85	..	..

* Including those specified in sections 2, 3, 7 and 8 of the Factory and Workshop Act, 1901, as remediable under the Public Health Acts.

3.—HOME WORK.

Class.	Number of		
	Lists.	Out-workers.	
		Con-tractors.	Workmen
List of Outworkers (S. 107) :—			
List received from Employers twice per year ..	16	7	62
„ „ „ „ once „ ..	2	1	1
Prosecutions			
		Wearing Apparel.	Other.
Outwork in unwholesome premises (S. 108) ..	{	Nil.	
Cases of infectious diseases notified in home workers' premises			
Orders prohibiting homework in infected premises (S.110) .. .			

4.—REGISTERED WORKSHOPS.

Workshops on the Register (S. 131) at the end of the year.

Important classes of workshops, such as workshop bake-houses, may be enumerated here.	Clothing and similar trade	271
	Leather „	183
	Iron and Tin „	58
	Wood „	103
	Lead and Paint „	70
	Jewellery „	33
	Bakehouses	156
	Miscellaneous Trades and Manufactures ..	118
	Total number of Workshops on Register ..	992

5.—OTHER MATTERS.

Matters notified to H.M. Inspector of Factories :

Failure to affix Abstract of the Factory and Workshop Acts (S, 133, 1901)		3
Action taken in matters referred by H.M. Inspector as remediable under the Public Health Acts, but not under the Factory and Workshop Acts (S. 5, 1901)	{ Notified by H.M. In-spector Reports (of action taken) sent to H.M. In-spector	30
Other		30
Underground Bakehouses (S. 101) :—		
Certificates granted during the year		7
In use at the end of the year		

**Particulars of Work Performed by Scavenging Staff at
Hillhouse Depot, &c.**

1913.	Receptacles brought in to the Depot, &c.	Refuse burnt in St. Andrew's Road Destructor.		Tons of Clinkers disposed of.
		Loads.	Tns. Cwts.	
January ..	71497	1565	2086 0	815
February ..	63064	1355	1667 15	653
March ..	67875	1312	1472 14	590
April ..	68583	1517	2045 4	802
May ..	70186	1477	1640 0	552
June ..	65729	1454	1482 13	582
July ..	71366	1418	1554 1	603
August ..	67119	1056	1749 11	702
September	68395	912		
October ..	61180	1392	3119 13	1147
November	64417	1384		
December..	71120	1441	1351 18	548
Year ..	810531	16283	18169 9	6994

Loads Collected during the Year 1913.

1913.				Ashes and Trade Refuse.	Slaughter House Refuse.
January ..	..	..		2543	22
February ..	..	..		2136	21
March ..	..	..		2255	21
April ..	..	..		2579	29
May ..	..	..		2446	22
June ..	..	..		2340	17
July ..	..	..		2177	20
August ..	..	..		1875	23
September	..	..		1788	29
October ..	..	..		2108	31
November	..	..		2126	30
December ..	..	..		2135	33
Total ..	..	..		26508	298

HILLHOUSE DEPOT MANURE SALES.

MONTHS.				Stable Manure	Grass Manure	Market Refuse	Slaugh- ter house Refuse	TOTALS
1913.				Tons	Tons	Tons	Tons	Tons.
January	..	..	..	168	..	..	..	168
February		..	..	208	..	..	..	208
March	..	..	..	226	..	..	..	226
April	..	..	..	280	..	..	..	280
May	..	..	..	216	..	..	..	216
June	..	..	..	104	..	..	..	104
July	..	..	..	228	..	..	..	228
August	..	..	..	231	..	..	..	231
September		..	..	216	..	..	..	216
October	..	..	..	218	..	..	..	218
November		..	..	226	..	..	..	226
December		..	..	284	..	..	..	284
Approximate Total				2605	..	..	..	2605

SMOKE OBSERVATIONS—1913.

The following Table shows the number of Smoke Observations taken during each month of the year, with the average number of minutes of Dense Black Smoke emitted per half-hour's observation.

1913.	Number of Observations taken.	Number shewing Moderate Smoke or None.	Number shewing Dense Black Smoke.	Total Minutes of Dense Black Smoke emitted.	Average number of minutes of Dense Black Smoke emitted from Chimneys per half-hour.	REMARKS.
January ..	4	..	4	15.5	3.9	<p>The maximum limit for dense black smoke was fixed by the Sanitary Committee in March, 1898, at three minutes per half-hour observation.</p> <p>Where this limit has been exceeded warning letters have been sent to the parties involved, and if no improvement has resulted before the meeting of the Committee, they have been reported to the Committee.</p> <p>In 27 cases legal notices have been issued during the year, resulting in a considerable diminution of black smoke emitted. In several cases the owners involved have adopted smoke preventing apparatus, or provided additional steam raising plant.</p>
February ..	28	12	16	38.5	2.4	
March ..	29	15	14	31.5	2.2	
April ..	87	36	51	164.5	3.2	
May ..	36	11	25	83.0	3.3	
June ..	90	26	64	198.0	3.1	
July ..	89	31	58	165.0	2.8	
August ..	251	181	70	164.5	2.3	
September	92	19	73	298.5	4.1	
October ..	117	37	80	317.5	4.0	
November..	47	17	30	84.0	2.8	
December	49	11	38	125.5	3.3	
Duplicate observations	..	..	..	..	..

CANAL BOAT ACTS, 1877 and 1884.

Huddersfield Registration District.

Report as to the execution of the above-named Acts and Regulations
made thereunder for the year ended December 31st, 1913.

To the Mayor and Corporation acting as the Urban Sanitary Authority
for the County Borough of Huddersfield.

GENTLEMEN,

I have the pleasure in submitting this, my annual report, on the working of the Canal Boats Acts in this Borough, as required by Section 3 of the Canal Boats Acts, 1884.

The number of Canal Boats visited and inspected during the year ended the 31st day of December, 1913, was 148, and of these 482 inspections were made, namely :—

32	Boats inspected	once each	..	..	32 inspections.
41	„	twice each	..	..	82 „
23	„	three times each	..	..	69 „
20	„	four times each	..	..	80 „
12	„	five times each	..	..	60 „
7	„	six times each	..	..	42 „
2	„	seven times each	..	..	14 „
2	„	eight times each	..	..	16 „
4	„	nine times each	..	..	36 „
4	„	ten times each	..	..	40 „
1	„	eleven times	..	..	11 „
<hr/>					
148					482

as against 447 inspections of 145 boats during 1912 and 420 inspections of 143 boats during 1911.

The population found on board these boats numbered 968, namely :—792 adult males, 129 adult females, and 47 children, as against 884 in 1912, namely :—710 adult males, 132 adult females, and 42 children ; and 822 in 1911, namely :—687 adult males, 106 adult females, and 29 children.

The following is a detailed statement of the number, age, and sex of children found on canal boats during 1913 :—

Ages ..	MONTHS.				YEARS.									TOTALS.
	3	6	9	..	1	2	3	4	6	7	8	10	13	
Males ..	1	..	..	..	1	3	2	5	12	1	..	..	1	26
Females .	..	1	1	..	8	2	..	5	2	..	1	1	..	21
Totals ..	1	1	1	..	9	5	2	10	14	1	1	1	1	47

By analysing the above table it is found that the number of children visiting Huddersfield of school age, and under that age, are as follows, namely :—29 under five years of age, and 18 from 5 to 13 years of age.

The monthly distribution of children on Canal Boats has been as under :—

Month, 1913.	Under 5 Years.	Over 5 Years.	Totals.
January .....	..	..	..
February	1	1	2
March	8	..	8
April	4	6	10
May .....	..	..	..
June	3	2	5
July	3	2	5
August	1	3	4
September .....	..	1	1
October	2	2	4
November	3	..	3
December	4	1	5
Totals ..	29	18	47

It will be seen from this record that an increased number of children of school age were met with during the year. The 18 children

of school age were met with on 7 boats in 16 inspections, namely :—

Two boats, each carrying one child of school age, visited Huddersfield on four occasions.

On boat, carrying one child of school age, visited Huddersfield on three occasions.

One boat, carrying one child of school age visited Huddersfield on two occasions.

Two boats, each carrying one child of school age, visited Huddersfield on one occasion.

One boat, carrying three children of school age, visited Huddersfield on one occasion.

The tabulation hereunder shows the number of children noted for the past three years.

- 1911. 14 children of school age met with on 8 boats in 9 inspections.
- 1912. 13 children of school age met with on 7 boats in 12 inspections.
- 1913. 18 children of school age met with on 7 boats in 16 inspections.

It is very gratifying to find that one's endeavour to impress upon the parents the importance of providing homes on shore for their household, continues to have the desired effect.

Without exception, whenever children were found on board a boat, there were one or more women in charge of them.

Inspections of Canal Boats have been made on 108 days during 1913, and at each meeting of the Health Committee a report has been given of the number of boats visited, also infringements calling for remedy which have been found since the previous Committee.

A large variety of goods are brought into the Borough by boat.

The imports are loaded at Goole, Grimsby, Hull, Horbury, Wakefield, Selby, and at various coal mines and gasworks abutting on the Canal,

The following paragraphs contain the information required by the circular of the Local Government Board, dated 15th December, 1913, arranged in the same order as those of the said circular :—

(1). Arrangements made for the inspection boats, the name, address, and remuneration of the Inspector.

William Medley Drake, Public Health Department, Huddersfield, was appointed Inspector of Canal Boats on the 7th day of January, 1895, and the remuneration for the work is included in his salary as Sanitary Inspector.

(2). The number of boats inspected during 1913, with the conditions of the boats and their occupants.

The number of boats inspected during 1913 was 148 and of inspections 482.

The 148 boats were made up of 47 broad boats, 25 narrow and 76 fly boats, the latter being all broad boats.

The places of registry were :—Goole, 93 ; Mirfield, 39 ; Marple, 4 ; Sowerby Bridge, 1 ; Birmingham, 2 ; Hull, 3 ; Huddersfield 2 ; Stoke, 1 and Manchester, 3. Ninety-one per cent, of the boats inspected were found to be in good condition and conforming to the Acts and Regulations, and the occupants of all the boats to be in good health.

(3). Infringements of the Acts and Regulations with respect to the following matters :—

(a) Registration. None.

(b) Notification of change of master. None.

(c) Masters without certificates. Five found. Warning Notices have been sent to the owners.

(d) Marking. Seven boats not marked. Warning Notices sent to owners.

(e) Overcrowding. None.

(f) Separation of sexes. None required.

(g) Cleanliness. Only cases of temporary uncleanness have been found, which have been remedied on request of Inspector.

(h) Ventilation. Nothing to complain about.

(i) Painting. Five cases found. One certificate returned and work done.

Repairs. Five cases met with. Warning notices sent.

(j) Provision of water cask. One boat without water vessel, and two with defective ones have been found. Warning notices were issued, none have been returned, but subsequent inspections have shown work done in one case.

(k) Removal of bilge water. This work received regular attention.

(l) Notification of infectious disease. None.

(m) Admittance of Inspector. No difficulty experienced.

(4). Legal proceedings taken. None.

(5). Any other steps taken to secure compliance with the Acts and Regulations. Fourteen warning notices have been issued and numerous letters written in respect of the twenty-five infringements (enumerated above) found on thirteen boats and many matters of cleanliness of minor moment have received prompt attention at the instigation of the Inspector.

(6). Infectious Diseases. None.

(7). Detention of Boats. None.

(8). (a) Number of boats on the register. Two. Propelled by motor. None.

(b) Number of boats that cannot be traced. None.

(9). Number registered during 1913. None.

I append hereto the usual summary.

Faithfully yours,

WILLIAM MEDLEY DRAKE,

Inspector under the Canal Boats Acts.

Public Health Department,

Huddersfield,

January 13th, 1914.

CANAL BOATS ACTS, 1877 AND 1884.

Summary Appendix to the Annual Report of the Canal Boats
Inspector for the year 1913.

	1913	1912	1911
Number of boats inspected	148	145	143
Made up of Broad Boats	47	61	53
Broad Fly Boats	76	65	69
Narrow Boats ..	25	19	21
Narrow Fly Boats	..	..	..
Registered Accommoda- tion—Aft Cabin ..	1616	1444 $\frac{1}{2}$	1397 $\frac{1}{2}$
Fore Cabin ..	1034	865	771 $\frac{1}{2}$
	} 2650	} 2309 $\frac{1}{2}$	} 2169
Population found on board			
Adults	921	842	793
Children	47	42	29
	} 968	} 884	} 822
Children under school age	29	29	15
Number of children of school age	18	13	14
Number of days on which inspections have been made	108	76	71
Number of inspections made	482	447	420
Number of boats conform- ing to Acts and Regula- tions	135	143	135
Number of boats with one or more infringements ..	13	2	8
Number of infringements met with	25	4	10
Number remedied ..	8	1	3
Number dealt with by Magistrates .. ..	..	..	..
Number still under notice, December 31st	17	3	7
No Service effected ..	..	..	..

PARTICULARS OF INFRINGEMENTS MET WITH

Details of Infringements.	Number of Infringements in respect of which Notices were served.	Infringements remedied.	Infringements not remedied.
Non-production of certificates ..	5	3	2
Cabin required painting.. ..	5	1	4
Boat not properly marked ..	7	3	4
Boat requires repairing	5	..	5
Provision of water casks ..	3	1	2
	25	8	17

PARTICULARS OF NON-REMEDIED INFRINGEMENTS.

Carrier. 824 Goole. Leaky deck and cask, marking and painting required.

Prince. 738 Goole. Non-production of certificate. Cabin wants painting and repairing.

Clara. 18 Goole. No water cask.

Freedom. 808 Goole. Leaky deck, paint in cabin wants renewing.

Albert. 90 Mirfield. Marking defaced and cabin dilapidated.

Mary. 233 Mirfield. Marking defaced and cabin dilapidated.

Gleaner 231 Mirfield. Paint in cabin wants renewing.

Nellie. 17 Goole. Non-production of certificate and boat not properly marked.

(Signed), WILLIAM M. DRAKE,

Inspector of Canal Boats.

TABLE A.

Vital Statistics of Huddersfield during the Year 1913 and previous Years.

YEAR.	Population estimated to middle of each year.	BIRTHS.			Total Deaths registered in the District.		Transferable Deaths.		Nett Deaths belonging to the District.			
		Un-corrected Number.	Nett.		Number.	Rate.	of Non-residents registered in the District.	of Residents not registered in the District.	Under 1 Year of Age.		At all Ages.	
			Number.	Rate.					Number.	Rate per 1,000 nett Births.		
1	2	3	4	5	6	7	8	9	10	11	12	13
1908	104178	..	2348	22.19	1677	15.85	74	42	263	112	1645	15.54
1909	105492	..	2318	22.05	1583	15.06	84	40	222	96	1539	14.64
1910	106820	..	2164	20.33	1605	15.08	74	40	215	99	1571	14.76
1911	108144	2126	2122	19.69	1664	15.44	84	55	281	132	1635	15.17
1912	109512	2060	2056	18.84	1540	14.11	94	61	199	97	1507	13.81
1913	110882	2196	2196	19.50	1681	14.92	101	84	227	103	1664	14.77

Area of District in acre	{	Total population at all ages	..	107821
(land and inland		Number of inhabited houses	..	25879
water)		Average number of persons per house	..	4.17

At Census of 1911.

TABLE B.

Cases of Infectious Diseases notified during the year 1913.

Notifiable Diseases.	Cases notified in whole District.					Total Cases notified in each Township.						No. of Cases removed to Sanatorium from each Township.						Total Cases removed to the Sanatorium from inside the Borough.	
	At all Ages.	At Ages—Years.					1	Huddersfield (including Central, Marsh, Fartown, Deighton and Bradley).	2	Dalton (H)	3	Almondbury.	4	Lockwood. (W).	5	Lindley.	6		
		Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 65.													65 and upwards.
Small Pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cholera .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	62	1	20	21	8	12	33	..	6	..	3	..	11	..	..	6	..	1	..
Membranous croup ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas	68	1	5	3	5	48	28	..	2	..	8	..	14	11	..	..	..	..	..
Scarlet Fever	288	3	58	178	36	13	140	..	13	33	51	..	43	33	..	32	..	8	281
Typhus Fever .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Enteric Fever	20	..	..	3	7	9	7	..	1	..	2	..	5	..	..	2	..	1	16
Relapsing Fever .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cerebro-spinal meningitis ..	2	..	..	2	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..
Puerperal Fever	10	..	..	..	..	10	5	..	..	..	3	..	..	2	..	..	..	..	..
Plague .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea (In Infants under 5 years of age)	266	114	152	..	..	..	182	14	24	29	24	10	7	..	2	..	..	..	15
Ophthalmia	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Neonatorum ..	19	18	1	..	..	..	12	1	1	5	1	..	..	..	..	..	..	..	..
Tuberculosis :—	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pulmonary	245	1	3	31	54	150	134	22	25	46	25	14	4	13	6	1	..	1	87†
Other	111	1	23	44	26	17	81	4	9	7	9	5	..	..	..	..	..	..	1
Other and doubtful cases .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals	1091	139	262	282	136	259	623	63	127	160	127	85	33	74	46	11	455*	..	..

Isolation Hospital, name and situation—Huddersfield Sanatorium, Dalton
Small Pox Hospital " " Whitehouse Farm, Dalton
Phthisis Hospital " " In grounds at Sanatorium, Dalton

Total available beds, 153.
No. of diseases that can be treated concurrently, 7

* One case of measles in addition to this number was removed to Sanatorium from Huddersfield Township during the Second Quarter of the year.
† Includes 4 re-admissions—S.G. and B.J., Lindley Township and B.W. and T.M., Huddersfield Township.

TABLE C.

Causes of, and Ages at Death during the Year, 1913.

CAUSES OF DEATH.			Nett Deaths at the Subjoined Ages of "Residents" whether occurring within or without the District.								Total Deaths whether of "Residents" or "Non-Residents" in Institutions in the District.			
			All Ages.	Under 1.	1 and under 2.	2 and under 5.	5 and under 15.	15 and under 25.	25 and under 45.	45 and under 65.	65 and upwards.	Infirmary	Sanatorium.	Workhouse.	Nursing Home.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
All causes—														
Certified	1654	224	57	51	46	69	243	460	504	147	33	124	9	
Uncertified	10	3	1	..	..	1	..	3	2	..	..	..	..
Enteric Fever	9	..	..	..	..	3	5	..	1	..	7	..	..
Small Pox .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	25	4	11	10	..	..	..	..	..	..	1	..	..
Scarlet Fever	7	..	..	4	2	..	1	..	..	..	7	..	..
Whooping Cough	8	5	3	..	..	..	..	..	..	..	..	..	..
Diphtheria and Croup	7	1	..	4	2	..	..	..	..	..	4	..	..
Influenza	11	..	..	..	1	2	3	2	1	..	..	..	..
Erysipelas	2	..	..	..	..	..	1	1	..	..	..	..	..
Phthisis (Pulmonary Tuberculosis)	100	..	..	1	6	21	46	25	1	1	3	17	..
Tuberculous Meningitis	16	2	5	2	5	1	1	..	..	2	..	..	..
Other Tuberculous Diseases	25	1	1	6	5	5	5	1	1	2	1	2	..	
Cancer, malignant disease	143	..	..	1	..	..	13	88	41	17	..	12	..
Rheumatic Fever	5	..	..	..	..	3	1	1	..	1	..	..	..
Meningitis	11	4	..	1	1	1	3	1	..	..	..	..	..
Organic Heart Disease	203	2	..	..	7	7	24	73	90	4	..	10	..
Bronchitis	174	31	6	..	2	1	9	36	89	3	..	10	..	
Pneumonia (all forms)	130	28	17	11	6	..	21	31	16	9	1	6	..	
Other diseases of respiratory organs	12	1	..	..	1	..	3	3	4	..	..	1	..
Diarrhœa and Enteritis	44	31	7	1	..	..	1	2	2	1	7	1	..
Appendicitis and Typhlitis	3	..	..	..	1	..	..	2	..	9	..	..	1
Cirrhosis of Liver	11	..	..	..	..	..	1	7	3	..	..	1	..
Alcoholism	7	..	..	..	..	1	..	6	..	..	..	..	..
Nephritis & Bright's Disease	87	..	..	1	1	4	26	37	18	3	..	1	..
Puerperal Fever	3	..	..	..	..	..	3	..	..	..	..	..	..
Other accidents and diseases of Pregnancy & Parturition	6	..	..	..	..	2	4	..	..	3	..	..	..
Congenital Debility and Malformation, including Premature Birth	66	61	3	2	..	..	..	..	..	9	1	2	..
Violent Deaths, excluding Suicide	46	4	1	4	3	6	13	11	4	24	..	2	1	
Suicide	18	..	..	..	..	2	7	6	3	2	..	..	..
Other Defined Diseases	483	50	4	3	3	11	50	130	232	57	1	59	7	
Diseases ill-defined or unknown	2	2	..	..	..	..	..	..	..	..	..	..	..
Totals	1664	227	58	51	46	70	243	463	506	147	33	124	9	
Sub- Entries included in above figures.														
	Cerebro-spinal Meningitis .. ..	..	..	..	..	..	..	..	..	..	..	..	..
	Poliomyelitis .. ..	..	..	..	..	..	..	..	..	..	..	..	..
	Pneumonia (other than Broncho-pneumonia)	77	10	8	6	4	..	18	21	10	5	1	5	

TABLE D.

Infant Mortality during the Year 1913.

Nett Deaths from stated causes at various ages under One Year of Age.

CAUSES OF DEATH.	Under 1 week.	1-2 weeks.	2-3 weeks.	3-4 weeks.	Total under 4 weeks.	4 weeks & under 3 months.	3 months & und'r 6 months.	6 months & und'r 9 months.	9 months & und'r 12 months.	Total Deaths under 1 Year.
All Causes—										
Certified	47	17	13	7	84	44	37	30	29	224
Uncertified	3	..	..	..	3	..	..	..	..	3
Small Pox .. ..	..	..	..	..	..	..	..	..	..	..
Chicken-pox .. ..	..	..	..	..	..	..	..	..	..	..
Measles .. ..	..	..	..	..	..	..	..	..	4	4
Scarlet Fever .. ..	..	..	..	..	..	..	..	..	..	..
Whooping Cough .. ..	..	..	..	..	..	1	2	2	..	5
Diphtheria and Croup .. ..	..	..	..	..	..	..	..	..	1	1
Erysipelas .. ..	..	..	..	..	..	..	..	..	..	..
Tuberculous Meningitis .. ..	..	..	..	..	..	..	1	..	1	2
Abdominal Tuberculosis .. ..	..	..	..	..	..	..	1	..	..	1
Other Tuberculous Diseases .. ..	..	..	..	..	..	..	..	..	..	..
Meningitis (<i>not Tuberculous</i>) .. ..	..	..	..	..	..	1	1	..	2	4
Convulsions	3	3	3	2	11	4	6	2	1	24
Laryngitis .. ..	..	..	..	..	..	..	..	..	..	..
Bronchitis .. ..	..	1	2	..	3	11	8	6	3	31
Pneumonia (all forms) .. ..	..	2	..	..	2	4	3	12	7	28
Diarrhœa .. ..	..	..	..	..	..	7	9	5	8	29
Enteritis .. ..	..	..	..	..	..	1	..	1	..	2
Gastritis .. ..	..	..	..	..	..	..	..	..	..	..
Syphilis .. ..	..	..	1	..	1	1	1	..	..	3
Rickets .. ..	..	..	..	..	..	..	..	..	..	..
Suffocation, overlying .. ..	..	..	..	..	..	2	..	..	..	3
Injury at birth	2	..	1	..	3	..	..	..	..	2
Atelectasis .. ..	..	..	..	..	..	..	..	..	..	..
Congenital Malformations	3	5	1	..	9	1	..	..	..	10
Premature birth	28	1	2	3	34	1	..	..	..	35
Atrophy, Debility and Marasmus	5	1	1	..	7	5	4	..	..	16
Other Causes	9	4	2	2	17	5	1	2	2	27
Totals	50	17	13	7	87	44	37	30	29	227

Nett Births in the year {

legitimate 2097

illegitimate 99

Nett Deaths in the year of {

legitimate infants 204

illegitimate infants 23

TABLE I.

Returns of Births and Deaths Registered during the thirteen weeks ended March 29th, 1913.

TOWNSHIPS.	Census Population, 1911.	Estimated Population at the middle of the year 1913.	Births Registered dur- ing the 13 weeks ended March 29th, 1913.	Deaths Registered dur- ing the 13 weeks ended March 29th, 1913.	AGE MORTALITY.			SEVEN ZYMOTIC DISEASES.								All other Diseases.	Rate of Mortality per 1,000.							
					Under 1 year.	Over 1 and Under 5 years.	Persons aged 65 years and upwards.	Small Pox.	Measles	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fevers.				Tuberculosis (all Forms).	Bronchitis, Pneumonia and Pleurisy.	Heart Diseases.	Cancer.	During the corres- ponding period year previous.	During the 13 weeks ended March 29th, 1913.	During the corres- ponding period year previous.	During the 13 weeks ended March 29th, 1913.
													Typhoid.	Other.	Diarrhoea.									
*Huddersfield Includ- ing Central, Marsh, Fartown, Deighton and Bradley	51,264	52,789	250	186	17	15	63	..	6	..	1	..	..	..	18	44	27	11	79	13.01	14.14	0.23	0.53
Dalton	9,249	9,415	42	34	4	5	7	..	1	..	..	..	..	..	3	11	2	3	14	15.04	14.49	1.29	0.43
Almondbury	15,485	15,718	73	48	3	2	19	..	..	..	1	..	..	..	5	11	7	2	22	14.40	12.26	..	0.26
Lockwood	16,641	17,456	81	50	5	1	19	..	..	..	..	..	..	..	2	11	13	3	21	9.63	11.50	0.70	..
Lindley	9,345	9,555	61	28	7	1	13	..	1	..	..	..	..	..	2	8	1	3	13	12.30	11.76	..	0.42
Longwood	5,837	5,949	23	19	2	..	8	..	..	..	..	..	..	..	2	3	4	2	8	17.69	12.82	0.68	..
Infirmary .....	..	..	4	27	3	4	2	..	..	..	..	..	..	..	3	4	2	1	17	..	..	..	..
Nursing Home .....	..	..	..	2	..	..	1	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..
Crosland Moor Workhouse ..	..	..	4	26	1	1	10	..	..	..	..	..	..	..	4	4	2	2	14	..	..	..	..
Deanhouse do.	..	..	..	5	..	..	4	..	..	..	..	..	..	..	..	1	1	..	3	..	..	..	..
Sanatorium for In- fectious Disease ..	..	..	..	9	..	5	..	..	1	6	1	..	..	..	1	..	..	..	..	..	..	..	..
Deaths of Residents outside Borough ..	..	..	..	18	..	..	7	..	..	..	..	..	..	1	5	3	..	9	..	..	..	..	..
Borough	107,821	110,882	538	452	42	34	153	..	9	6	3	..	1	..	45	100	59	27	202	..	..	..	..
Rate per 1,000 of Esti- mated Population	..	..	19.47	16.36	..	..	..	..	0.33	0.22	0.11	..	0.04	..	1.63	3.62	2.12	0.98	7.31	15.98	16.36	0.66	0.69

Death Rate—Huddersfield, with Infirmary and Nursing Home, 16.35 Deaths of Children under one year per 1,000 births, 78. Death Rate of 96 Towns, 16.89.
 " Dalton, with Fever Hospital 18.33 " " previous corresponding period, 108. Birth Rate " 25.44.
 " Lockwood, with Crosland Moor Workhouse, 17.47

*Owing to the alterations in the Ward Boundaries made by the Council in January, 1908 (see Minutes, 15-1-1908) it is not possible to continue the division of the Huddersfield Township into the Districts, Central, Marsh, Fartown, Deighton and Bradley as in former years. The other districts are however strictly comparable with those of previous years.

TABLE II.

Return of Births and Deaths Registered during the thirteen weeks ended June 28th, 1913.

TOWNSHIPS.	Census Population, 1911.	Estimated Population at the middle of the Year 1913.	Births Registered dur- ing the 13 weeks ended June 28th, 1913.	Deaths Registered dur- ing the 13 weeks ended June 28th, 1913.	AGE MORTALITY.			SEVEN ZYMOTIC DISEASES.								All other Diseases.	Rate of Mortality per 1,000.								
					Under 1 year.	Over 1 and under 5 years.	Persons aged 65 years and upwards.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fevers.				Diarrhoea.	Tuberculosis (all Forms.)	Bronchitis, Pneumonia and Pleurisy.	Heart Diseases.	Cancer.	During the corres- ponding period year previous.	During the 13 weeks ended June 28th, 1913.	Seven Zymotics	During the 13 weeks ended June 28th, 1913.
													Typhoid.	Other.	Typhoid.										
*Huddersfield Includ- ing Central, Marsh, Fartown, Deighton and Bradley	51,264	52,789	285	183	29	13	54	..	3	..	..	..	..	..	..	2	16	35	26	14	87	12.09	13.91	0.69	0.38
Dalton	9,249	9,415	57	20	3	1	5	..	2	..	..	..	..	..	..	..	..	4	3	8	13.75	8.53	1.72	0.85	
Almondbury	15,485	15,718	67	50	6	4	16	..	3	..	..	..	..	..	..	..	2	9	4	6	26	11.57	12.77	0.77	0.77
Lockwood	16,641	17,456	103	46	6	2	18	..	..	..	..	..	..	..	..	1	5	13	5	4	18	11.27	10.58	0.70	0.23
Lindley	9,345	9,555	39	23	1	..	11	..	..	..	..	..	..	..	..	..	1	4	2	2	14	10.18	9.66	0.85	..
Longwood	5,837	5,949	27	20	1	2	7	..	..	..	..	..	..	..	..	..	3	3	3	1	10	14.29	13.49	0.68	..
Infirmary .....	..	..	2	19	1	2	1	..	..	..	..	..	..	..	..	..	..	1	..	..	14	..	..	..	..
Nursing Home .....	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
Crosland Moor Workhouse	..	..	3	30	1	..	12	..	..	..	..	..	..	..	..	..	4	5	2	5	14	..	..	..	..
Deanhouse do.	..	..	..	2	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..
Sanatorium for In- fectious Disease ..	..	..	..	2	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..
Deaths of Residents outside Borough ..	..	..	..	15	..	..	6	..	..	..	..	..	..	..	..	..	1	1	1	1	11	..	..	..	..
Borough	107,821	110,882	584	411	49	24	131	..	8	..	..	..	1	..	3	32	75	46	40	206	..	..	..	..	..
Rate per 1,000 of Esti- mated Population	..	..	21.14	14.88	..	..	..	..	0.20	..	..	..	0.04	..	0.11	1.16	2.71	1.67	1.45	7.46	14.18	14.88	0.95	0.43	0.43

Death Rate—Huddersfield, with Infirmary and Nursing Home, 15.43 Deaths of Children under one year per 1,000 births, 84. Death Rate of 96 Towns, 13.53.
Dalton, with Fever Hospital, 9.38
Lockwood, with Crosland Moor Workhouse 17.47
,, previous corresponding period, 107. Birth Rate 25.87.

*Owing to the alteration in the Ward Boundaries made by the Council in January, 1908 (see Minutes, 15-1-1908) it is not possible to continue the division of the Huddersfield Township into the Districts, Central, Marsh, Fartown, Deighton and Bradley as in former years. The other districts are however strictly comparable with those of previous years.

TABLE III.

Return of Births and Deaths Registered during the thirteen weeks ended September 27th, 1913.

TOWNSHIPS.	Census Population, 1911.	Estimated Population at the middle of the year, 1913.	Births Registered dur- ing the 13 weeks ended September 27th, 1913.	Deaths Registered dur- ing the 13 weeks ended September 27th, 1913.	AGE MORTALITY.			SEVEN ZYMOTIC DISEASES.									All other Diseases.	Rate of Mortality per 1,000.							
					Under 1 year.	Over 1 and under 5 years.	Persons aged 65 years and upwards.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fevers.		Diarrhoea	Tuberculosis (all Forms).		Bronchitis, Pneumonia and Pleurisy.	Heart Diseases.	Cancer.	During the corre- sponding period year previous.	During the 13 weeks ended Sept. 27th, 1913.	During the corres- ponding period year previous.	During the 13 weeks ended Sept. 27th, 1913.	
													Typhoid.	Other.											
*Huddersfield Includ- ing Central, Marsh, Fartown, Deighton and Bradley	51,264	52,789	234	164	44	14	36	..	7	..	..	..	4	..	..	13	11	26	12	17	74	9.32	12.47	0.46	1.82
Dalton	9,249	9,415	58	29	8	3	9	..	1	..	..	..	1	..	..	1	2	4	1	1	18	8.16	12.36	0.43	1.28
Almondbury	15,485	15,718	60	29	2	1	10	..	..	..	..	..	..	..	..	..	2	6	6	5	10	8.23	7.41	0.26	..
Lockwood	16,641	17,456	92	56	10	3	13	..	..	..	..	..	..	..	..	4	2	4	12	5	29	7.75	12.88	0.94	0.92
Lindley	9,345	9,555	50	25	1	1	10	..	..	..	..	..	..	..	..	..	1	7	5	2	7	5.94	10.50	0.42	..
Longwood	5,837	5,949	19	12	1	1	6	..	..	..	..	..	..	..	..	..	1	2	3	..	8	13.61	8.10	..	..
Infirmary . . . . .	..	..	1	17	2	1	4	..	..	..	..	..	..	..	..	..	..	..	..	4	10	..	..	..	..
Nursing Home . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Crosland Moor Workhouse	..	..	7	26	2	..	7	..	..	..	..	..	..	..	..	1	5	1	5	3	11	..	..	..	..
Deanhouse do.	..	..	..	5	..	..	3	..	..	..	..	..	..	..	..	..	..	1	2	..	2	..	..	..	..
Sanatorium for In- fectious Disease . . .	..	..	..	14	9	..	1	..	..	..	2	..	2	..	..	6	2	1	..	..	1	..	..	..	..
Deaths of Residents outside Borough ..	..	..	..	17	1	..	1	..	..	..	..	..	..	..	..	1	3	3	3	2	5	..	..	..	..
Borough	107,821	110,882	521	394	80	24	100	..	8	..	2	5	2	..	..	26	33	55	49	39	175	..	..	..	..
Rate per 1,000 of Esti- mated Population	..	..	18.86	14.26	..	..	..	..	0.29	..	0.07	0.18	0.07	..	..	0.94	1.19	1.99	1.77	1.41	6.33	10.80	14.26	0.62	1.56

Death Rate—Huddersfield, with Infirmary and Nursing Home	13.76	Deaths of Children under one year per 1,000 births, 154.	Death Rate of 96 Towns, 12.75.
“ Dalton, with Fever Hospital,	18.33	“ previous corresponding period, 69.	“ Birth Rate 25.30.
“ Lockwood, with Crosland Moor Workhouse	18.85		

*Owing to the alterations in the Ward Boundaries made by the Council in January, 1908 (see Minutes, 15-1-1908) it is not possible to continue the division of the Huddersfield Township into the Districts, Central, Marsh, Fartown, Deighton and Bradley as in former years. The other districts are however strictly comparable with those of previous years.

TABLE IV.

Return of Births and Deaths Registered during the fourteen weeks ended January 3rd, 1914.

TOWNSHIPS.	Cesns Population, 1911.	Estimated Population at the middle of the Year 1913	Births Registered dur- ing the 14 weeks ended January 3rd, 1914.	Deaths Registered dur- ing the 14 weeks ended January 3rd, 1914.	AGE MORTALITY.			SEVEN ZYMOTIC DISEASES.								Rate of Mortality per 1,000.								
					Under 1 year.	Over 1 and under 5 years	Persons aged 65 years and upwards.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fevers.		Tuberculosis (all Forms).	Bronchitis, Pneumonia and Pleurisy.	Heart Diseases.	Cancer.	All other Diseases.	All Causes.		Seven Zymotics		
													Typhoid.	Other.						During the cor- responding period year previous.	During the 14 weeks ended January 3rd, 1914.	During the cor- responding period year previous.	During the 14 weeks ended January 3rd, 1914.	
*Huddersfield Includ- ing Central, Marsh, Fartown, Deighton and Bradley	51,264	52,789	254	177	30	10	48	..	..	..	..	1	..	..	5	9	42	21	17	82	11.94	12.50	1.00	0.42
Dalton	9,249	9,415	53	21	3	2	9	..	..	..	..	..	..	..	..	..	4	3	3	11	14.18	8.31	..	..
Almondbury	15,485	15,718	85	41	7	1	20	..	..	..	..	..	..	..	..	6	9	8	4	14	11.05	9.72	..	..
Lockwood	16,641	17,456	83	55	7	6	12	..	..	..	..	1	..	2	4	11	7	5	25	25	10.80	11.74	0.47	0.64
Lindley	9,345	9,555	43	18	2	1	6	..	..	..	..	..	1	..	..	3	1	5	..	8	7.64	7.02	..	0.39
Longwood	5,837	5,949	32	17	3	..	6	..	..	..	..	..	..	..	..	1	4	..	5	6	6.80	10.65	0.68	0.63
Infirmary .....	..	..	..	22	2	5	1	..	..	..	..	..	..	..	..	..	3	..	2	17	..	..	..	..
Nursing Home .....	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3	..	..	..	..
Crosland Moor Workhouse	..	..	3	23	..	..	9	..	..	..	..	..	..	..	..	4	5	..	..	14	..	..	..	..
Deanhouse do.	..	..	..	7	..	..	6	..	..	..	..	..	..	..	..	1	..	2	..	4	..	..	..	..
Sanatorium for In- fectious Disease ..	..	..	..	8	2	1	..	..	..	1	1	..	4	..	1	1	..	..	..	..	..	..	..	..
Deaths of Residents outside Borough ..	..	..	..	15	..	1	5	..	..	..	..	..	..	..	..	2	1	3	1	8	..	..	..	..
Borough	107,821	110,882	553	407	56	27	122	..	..	1	1	3	5	..	8	31	80	49	37	192	..	..	..	..
Rate per 1,000 of Esti- mated Population	..	..	18.59	13.68	..	..	..	..	..	0.03	0.03	0.10	0.17	..	0.27	1.04	2.69	1.65	1.24	6.45	14.18	13.68	1.10	0.61

Death Rate—Huddersfield, with Infirmary and Nursing Home, 14.26 Deaths of Children under one year per 1,000 births, 101. Death Rate of 96 Towns, 14.21.
 „ Dalton, with Fever Hospital 11.48 „ previous corresponding period, 104. Birth Rate „ 24.10.
 „ Lockwood, with Crosland Moor Workhouse 16.65

*Owing to the alterations in the Ward Boundaries made by the Council in January, 1908 (see Minutes, 15-1-1908) it is not possible to continue the division of the Huddersfield Township into the Districts, Central, Marsh, Fartown, Deighton and Bradley as in former years. The other districts are however strictly comparable with those of previous years.

TABLE V.

Return of Births and Deaths Registered during the fifty-three weeks ended January 3rd, 1914.

TOWNSHIPS.	Census Population, 1911.	Estimated Population at the middle of the year 1913.	Births Registered during the 53 weeks ended January 3rd, 1914.	Deaths Registered during the 53 weeks ended January 3rd, 1914.	AGE MORTALITY.			SEVEN ZYMOTIC DISEASES.								All other Diseases.	Rate of Mortality per 1,000.							
					Under 1 year.	Over 1 and under 5 years.	Persons aged 65 years and upwards.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fevers.		Diarrhoea.									
													Typhoid.	Other.										
*Huddersfield Including Central, Marsh, Fartown, Deighton and Bradley	51,264	52,789	1023	710	120	52	201	..	16	..	1	5	..	..	20	54	147	86	59	322	11.59	13.24	0.60	0.78
Dalton	9,249	9,415	210	104	18	11	30	..	4	..	..	1	..	..	1	5	23	9	10	51	12.78	10.87	0.86	0.63
Almondbury	15,485	15,718	285	168	18	8	65	..	3	..	1	..	..	..	..	15	35	25	17	72	11.31	10.52	0.26	0.25
Lockwood	16,641	17,456	359	207	28	12	62	..	..	..	..	1	..	..	7	13	39	37	17	93	9.86	11.67	0.70	0.45
Lindley	9,345	9,555	193	94	11	3	40	..	1	..	..	1	..	..	..	10	20	13	7	42	9.01	9.69	0.32	0.21
Longwood	5,837	5,949	101	68	7	3	27	..	..	..	..	..	1	..	..	7	10	10	8	32	13.10	11.25	0.51	0.17
Royal Infirmary .....	..	..	7	85	8	12	8	..	..	..	..	..	..	..	..	4	10	2	11	58	..	..	..	..
Nursing Home .....	..	..	1	6	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	6	..	..	..	..
Crosland Moor Workhouse .....	..	..	17	105	4	1	38	..	..	..	..	..	..	..	1	17	15	9	10	53	..	..	..	..
Deanhouse do. ....	..	..	..	19	..	..	14	..	..	..	..	..	..	..	..	1	2	5	..	11	..	..	..	..
Sanatorium for Infectious Disease ..	..	..	..	33	12	6	1	..	1	7	4	..	7	..	7	4	1	..	..	2	..	..	..	..
Deaths of Residents outside Borough ..	..	..	..	65	1	1	19	..	..	..	..	..	1	..	1	11	8	7	4	33	..	..	..	..
Borough	107,821	110,882	2196	1664	227	109	506	..	25	7	6	8	9	..	37	141	310	203	143	775	..	..	..	..
Rate per 1,000 of Estimated Population	..	..	19.50	14.77	..	..	..	..	0.22	0.06	0.05	0.07	0.08	..	0.33	1.25	2.75	1.80	1.27	6.88	13.81	14.77	0.83	0.82

Death Rate—Huddersfield, with Infirmary and Nursing Home,	14.94	Deaths of Children under one year per 1,000 births,	103.	Death Rate of 96 Towns,	14.7.
“ Dalton, with Fever Hospital	14.33	“ “ previous corresponding period,	97.	Birth Rate	25.1.
“ Lockwood, with Crosland Moor Workhouse	17.60				

*Owing to the alterations in the Ward Boundaries made by the Council in January, 1908 (see Minutes, 15-1-1908) it is not possible to continue the division of the Huddersfield Township into the Districts, Central, Marsh, Fartown, Deighton and Bradley as in former years. The other district are however strictly comparable with those of previous years.

TABLE VI.

Death Rate per 1,000 per annum for 1913 and thirty-three previous years.

Year.	Estimated Population at the middle of the year.	From all causes and at all ages.	Children under 1 year.	Children over 1 year and under 5 years.	In persons aged 50 years and upwards.	In persons aged 65 years and upwards.	ZYMOTIC DISEASES.								Violence and Accidents.	Consumption and Diseases of Organs.
							Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fever.	Diarrhoea.	Seven Zymotic Diseases.		
1880	81,780	22.04	5.20	3.79	6.66	..	0.02	0.40	0.28	0.05	0.15	0.67	0.91	2.49	0.61	6.72
1881	82,113	20.35	4.67	2.82	6.54	..	..	0.09	0.21	0.04	0.42	0.13	0.38	1.26	0.75	6.50
1882	83,271	22.39	5.64	3.93	6.60	..	..	0.96	0.26	0.07	0.64	0.18	0.53	2.03	0.65	6.81
1883	84,450	21.38	5.14	3.09	6.52	..	..	0.39	0.08	0.04	0.55	0.18	0.44	1.68	0.58	7.65
1884	86,004	19.54	4.84	2.55	6.34	..	..	0.18	0.08	0.05	0.70	0.14	0.63	1.77	0.57	5.65
1885	87,327	20.05	4.62	2.84	6.79	..	..	0.65	0.13	0.05	0.29	0.11	0.20	1.42	0.74	6.50
1886	88,670	19.54	4.49	2.76	6.30	..	..	0.19	0.37	0.14	0.32	0.14	0.48	1.63	0.79	6.38
1887	90,034	22.99	5.06	4.42	6.70	..	..	1.39	0.35	0.46	0.08	0.10	0.41	3.39	0.51	7.26
1888	91,419	18.51	3.90	2.80	6.37	..	0.02	0.36	0.29	0.15	0.41	0.13	0.19	1.55	0.65	5.40
1889	92,825	18.79	4.15	2.78	6.33	..	..	0.98	0.28	0.13	0.16	0.11	0.36	2.02	0.38	5.95
1890	94,253	18.84	3.83	2.19	7.02	..	0.01	0.04	0.07	0.05	0.42	0.25	0.39	1.23	0.48	6.58
1891	95,410	23.02	4.52	3.51	8.64	..	..	1.12	0.31	0.05	0.62	0.16	0.14	2.40	0.67	7.66
1892	95,373	18.37	3.53	2.60	6.97	..	0.01	0.71	0.19	0.07	0.30	0.06	0.19	1.55	0.48	5.76
1893	95,336	17.84	2.37	2.05	6.82	..	0.02	0.26	0.26	0.03	0.14	0.15	0.55	1.41	0.38	5.55
1894	95,299	16.46	3.35	1.94	5.92	..	..	0.14	0.24	0.28	0.58	0.14	0.19	1.57	0.40	4.81
1895	95,261	17.89	3.58	1.95	7.00	..	..	0.13	0.21	0.20	0.22	0.06	0.54	1.36	0.47	5.17
1896	95,224	17.69	3.63	2.25	6.90	..	..	0.28	0.26	0.27	0.37	0.13	0.34	1.79	0.50	5.51
1897	95,187	17.56	3.30	1.74	6.81	..	..	0.27	0.35	0.22	0.21	0.17	0.35	1.57	0.48	5.05
1898	95,149	17.13	3.70	1.89	7.03	..	..	0.34	0.10	0.15	0.12	0.16	0.81	1.02	0.60	4.65
1899	95,112	17.63	3.79	1.41	7.44	..	..	0.12	0.07	0.05	0.59	0.25	0.95	2.04	0.52	4.74
1900	95,074	18.49	3.32	1.89	8.20	..	..	0.62	0.20	0.02	0.18	0.24	0.50	1.74	0.57	5.26
1901	95,351	16.64	3.02	1.23	..	4.38	..	0.14	0.06	0.06	0.02	0.19	0.94	1.41	0.61	4.46
1902	96,573	17.43	3.30	1.78	..	4.17	0.01	0.59	0.11	0.15	0.47	0.05	0.19	1.58	0.57	4.46
1903	97,808	16.25	2.78	1.32	..	4.29	0.02	..	0.15	0.14	0.16	0.08	0.26	0.82	0.66	4.41
1904	99,056	16.78	3.08	1.69	..	4.11	0.01	0.76	0.16	0.14	0.25	0.07	0.50	1.83	0.61	4.13
1905	100,317	16.05	2.69	1.29	..	4.17	..	0.05	0.11	0.11	0.17	0.17	0.46	1.07	0.58	4.15
1906	101,591	16.18	3.07	1.81	..	4.21	..	0.60	0.07	0.13	0.32	0.09	0.80	2.00	0.44	3.84
1907	102,887	15.61	2.07	1.11	..	4.23	..	0.10	0.06	0.08	0.18	0.11	0.49	0.71	0.50	3.95
1908	104,178	15.54	2.48	1.55	..	4.05	..	0.62	0.03	0.08	0.13	0.08	0.56	1.50	0.47	3.55
1909	105,492	14.64	2.11	1.27	..	4.12	..	0.17	0.09	0.19	0.14	0.10	0.25	0.94	0.55	3.47
1910	106,820	14.76	2.02	1.17	..	3.86	..	0.09	0.17	0.14	0.27	0.05	0.28	1.00	0.49	3.22
1911	108,144	15.17	2.61	1.20	..	4.40	..	0.16	0.15	0.20	0.10	0.07	1.14	1.83	0.50	3.16
1912	109,512	13.81	1.82	0.95	..	4.07	..	0.19	0.20	0.08	0.24	0.02	0.10	0.83	0.44	2.98
1913	110,882	14.77	2.02	0.97	..	4.49	..	0.22	0.06	0.05	0.07	0.08	0.33	0.82	0.57	3.64

TABLE VIII.

Cases of infectious diseases notified under the 64th clause of the Huddersfield Improvement Act, 1880, or found through official enquiries, during the four quarters of the 53 weeks of the year 1913.

A Cases of Small Pox, Scarlet Fever, Typhoid, and Typhus Fever.

	1st Quarter.				2nd Quarter.				3rd Quarter.				4th Quarter.				YEAR.			
	Cases heard of.	Admitted to Hospital.	Total deaths in Borough.	Deaths in Hospital	Cases heard of.	Admitted to Hospital.	Total deaths in Borough.	Deaths in Hospital.	Cases heard of.	Admitted to Hospital.	Total deaths in Borough.	Deaths in Hospital.	Cases heard of.	Admitted to Hospital.	Total deaths in Borough.	Deaths in Hospital.	Cases heard of.	Admitted to Hospital.	Total deaths in Borough.	Deaths in Hospital.
Small pox	133	131	6	6	54	54	1	1*	52	49	47	1	49	47	1	1	288	281	7	8
Scarlet fever	3	1	1	1	2	1	1	2	5	5	9	4	10	9	5	4	20	16	9	7
Typhoid fever . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Typhus fever . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
The above 4 diseases	136	132	7	6	56	55	1	2	57	54	2	2	59	56	6	5	308	297	16	15

* Died from Pyæmia.

B Other Diseases.

[illegible]